

SAFETY **LIGHTING**

**DECENTRAL
AND
CENTRAL
SUPPLY**

LIGHT IS SAFETY

True to this motto, **Beghelli PRÄZISA** has been a competent partner for specialist planners, expert companies, industries, trade and commerce worldwide for more than three decades. We develop, manufacture and distribute **safety lighting** as well as **interior and exterior lighting**.

Important criteria for the design of our products are the **preservation of resources** and the **protection of the environment**. This is done through products with **high efficiency**

and simple operation. This reduces the costs of assembly, installation and operation - the latter through lower **energy consumption and longer service life**. Our standards for general and safety lighting are very high.

We are constantly developing new functions and designs of innovative lighting concepts. This way we do not just provide safety through lighting, but also stage buildings and public spaces.



RELIABLE

For lighting control and monitoring, we have been relying on wireless communication according to the Zigbee® standard for more than 15 years. This allows optimal management of indoor and outdoor lighting. The standard is particularly advantageous for construction and renovation of new lighting and the renovation of existing lighting.



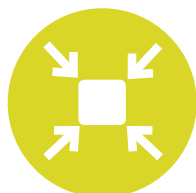
SUSTAINABLE

Our concepts SmartLighting and SicuroEmergencyLighting are extremely efficient. Lighting power is reduced up to 75%, lighting quantity up to 40%. Installation and maintenance are easy. This saves energy and protects the environment.



INNOVATIVE

The series TitanatEmergencyLighting is powered by lithium-titanate batteries. The service life is 10 years and is therefore cheaper and safer than the central battery supply. The system can even be operated without any problems in extreme temperature ranges from -20 °C to +50 °C.



COMPACT

Tula combines escape sign and safety luminaire and replaces the separate escape signs and safety luminaires at exits, emergency exits and escape routes. Tula is available for surface wall and ceiling mounting as well as for pendant mounting and can be flexibly integrated into any architecture.



VARIABLE

MultiLens is a flat and lightweight downlight for surface wall and ceiling mounting. The light distribution is variable through the multi-focus lens module. Light colours can be individually controlled with the multicolour LED driver.

| | | |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------|
| GENERAL | Central and decentral supply with Sicuro230 and Sicuro24 | Page 6-7 |
| CONTROL DIMMING SUPPLY LUMINAIRES FUNCTIONS FOR SICURO230 AND SICURO24 | Central supply with Sicuro230 | Page 8-9 |
| | Decentral supply with Sicuro24 | Page 10-11 |
| | Danger-dependent dynamic control | Page 12-13 |
| | Mode-dependent reduced self-contained supply | Page 15 |
| | Control & dimming | Page 16-21 |
| | Testing | Page 22-23 |
| | Luminaires | Page 24-25 |
| | Functions | Page 26-27 |
| | Interfaces | Page 28-29 |
| | Optional components | Page 56-61 |
| Order index | Page 62 | |

**CENTRAL
SUPPLY
SICURO230**

| | |
|------------------------------------------------------------|------------|
| Risk-dependent dual self-contained supply Sicuro230 | Page 14 |
| Central stations | Page 30-31 |
| Sub stations | Page 32-33 |
| Luminaire circuit modules | Page 34-35 |
| Monitoring and control modules | Page 36-37 |
| Disaster recovery module | Page 38 |
| Battery management Life Plus | Page 39 |
| Technical data | Page 40-41 |
| Charging modules and batteries | Page 42 |
| Project planning information | Page 43 |
| Overview plan | Page 44-45 |

**DECENTRAL
SUPPLY
SICURO24**

| | |
|---------------------------------------|------------|
| Compact stations | Page 46-47 |
| Luminaire circuit modules | Page 48 |
| Monitoring and control modules | Page 49 |
| Technical data | Page 50-51 |
| Charging modules and batteries | Page 52 |
| Project planning information | Page 53 |
| Overview plan | Page 54-55 |

CENTRAL & SUPPLY



CENTRAL SUPPLY WITH S230

- for building-related safety lighting ✓
- static & dynamic control ✓
- risk-dependent dual self-contained supply ✓**
- mode-dependent reduced self-contained supply ✓**

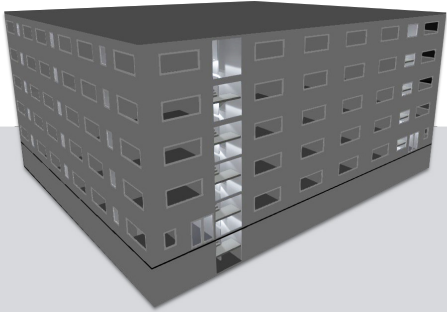
DECENTRAL S230 & S24



DECENTRAL SUPPLY WITH S24

- ✓ for fire sections related safety luminaires
- ✓ static & dynamic control
- ✓ **mode-dependent reduced self-contained supply**
- ✓ **extreme version for extended temperature ranges**

S230
[SICURO]



SICURO230

System without power limitation for supplying the safety lighting in a building – concept with one central station and a maximum of 32 sub stations

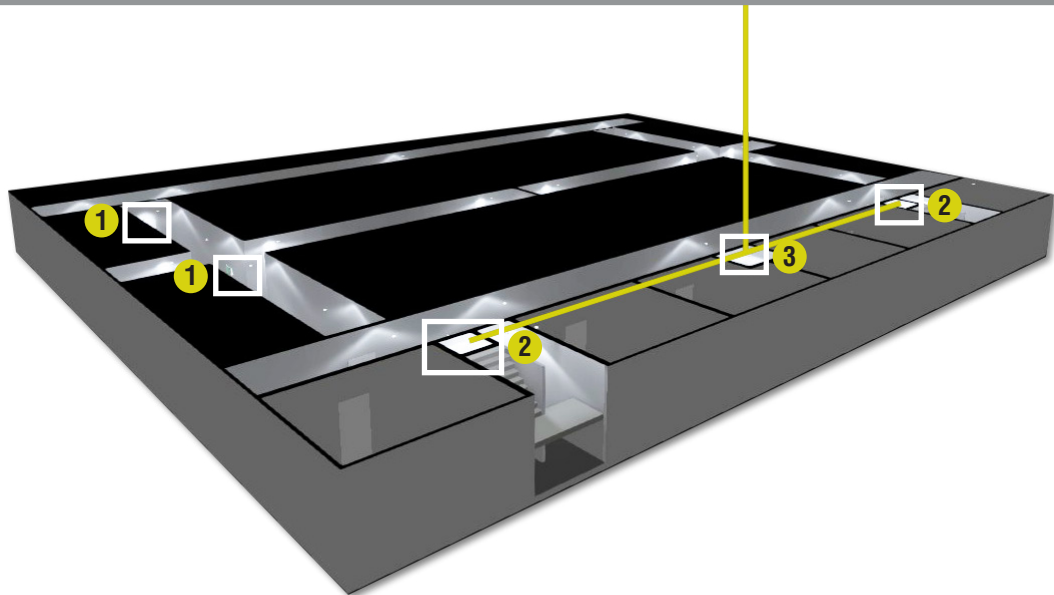


 battery compartement

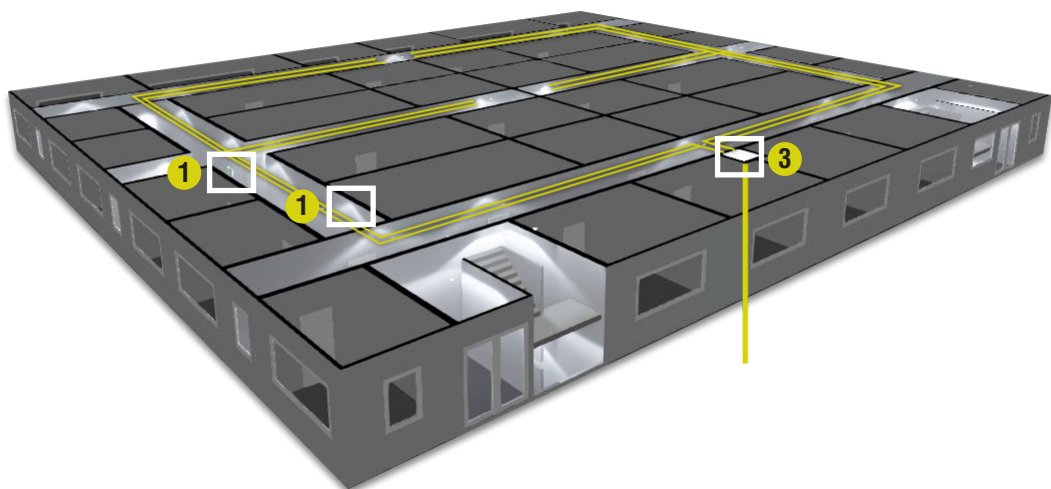
 additional distributor

 additional cables

F30  partly functional integrity



BF



GF

CENTRAL SUPPLY WITH SICURO230

SUPPLY OF

2 CENTRAL STATION



3 SUB STATION



1



SEPARATE
EXIT SIGN LUMINAIRES



SEPARATE
SAFETY LUMINAIRES



COMBINED
EXIT SIGN AND
SAFETY LUMINAIRES



DYNAMIC
EXIT SIGN LUMINAIRES¹



DYNAMIC
LUMINOUS MARKERS¹



INDOOR AND OUTDOOR
LUMINAIRES

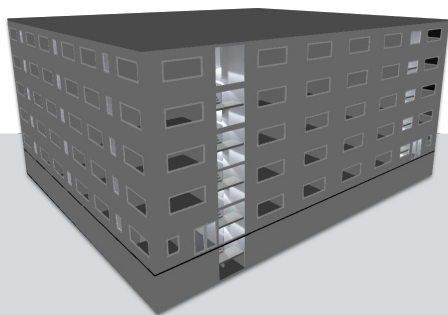


Danger-depending dynamic control of the safety lighting
Demand-depending static control of the safety lighting
Risk-depending dual self contained supply in emergency operation for increasing personal safety

Mode-depending reduced self contained supply in emergency operation for decreasing of battery capacity
Automatic power reduction of indoor and outdoor luminaires in emergency operation
Six combined operating modes in one luminaire circuit

¹ only with S24-sub stations





SICURO S24



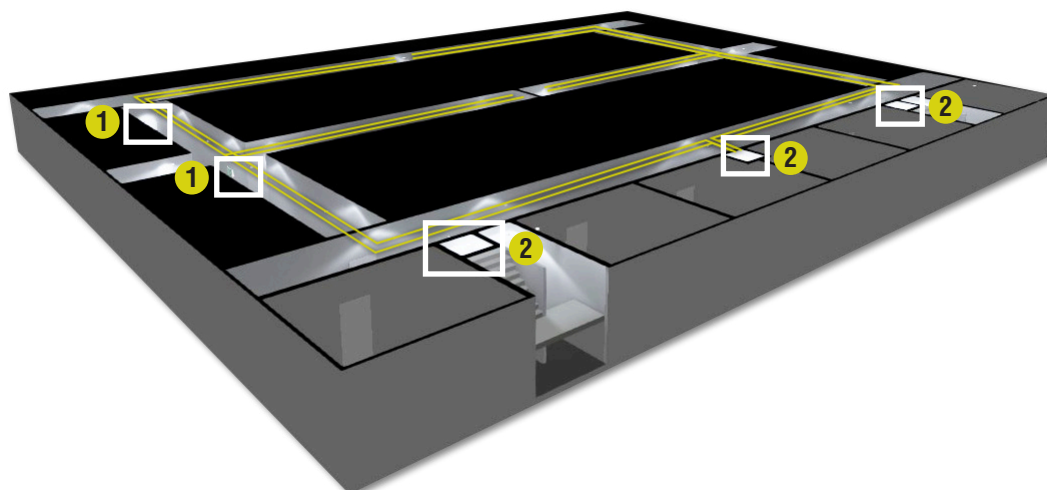
SICURO24

System with power limitation for supplying the safety lighting in a fire area of a building¹ – concept with compact station

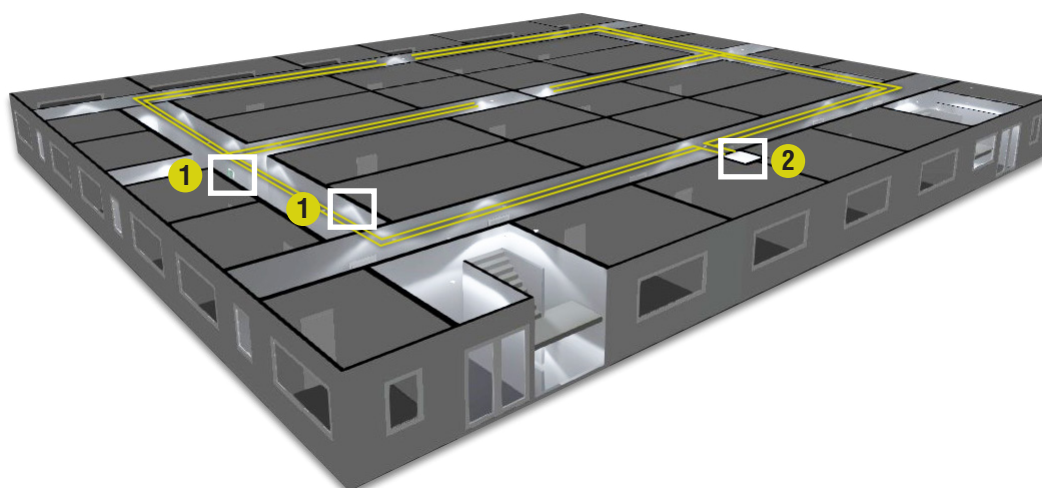


-  no battery compartment
-  no additional distributors
-  no additional cables
-  no functional integrity

¹ in public buildings with fire areas < 1.600 m²



BF



GF

DECENTRAL SUPPLY WITH SICURO24

SUPPLY OF

2 COMPACT STATION



1



SEPARATE
EXIT SIGN LUMINAIRES



SEPARATE
SAFETY LUMINAIRES



COMBINED
EXIT SIGN AND
SAFETY LUMINAIRES



DYNAMIC
EXIT SIGN LUMINAIRES



DYNAMIC
LUMINOUS MARKERS



INDOOR AND OUTDOOR
LUMINAIRES



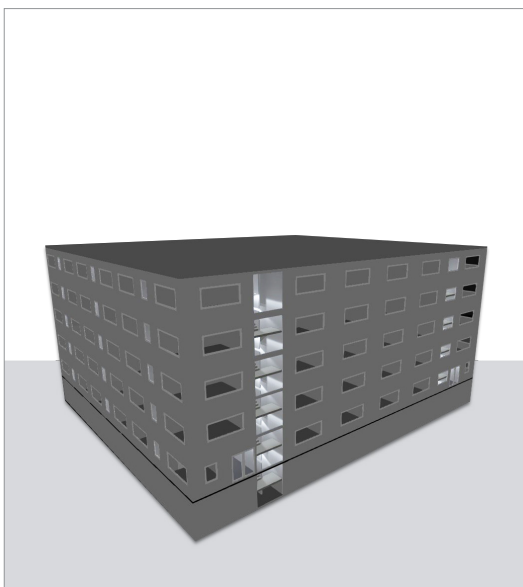
Danger-dependent dynamic control of the safety lighting

Demand-dependent static control of the safety lighting

Mode-dependent reduced self contained supply in emergency operation for decreasing of battery capacity

Automatic power reduction of indoor and outdoor luminaires in emergency operation

Six combinable operating modes in one luminaire circuit

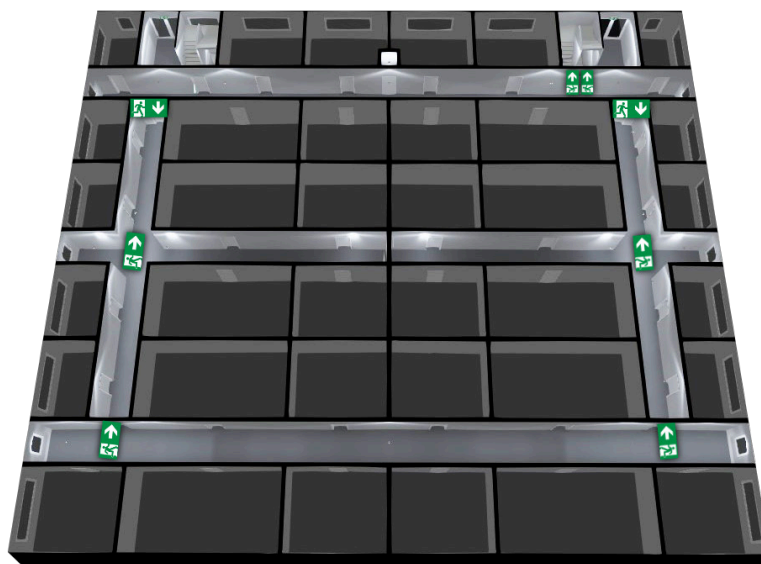


DANGER-DEPENDING DYNAMIC CONTROL WITH SICURO230 & SICURO24

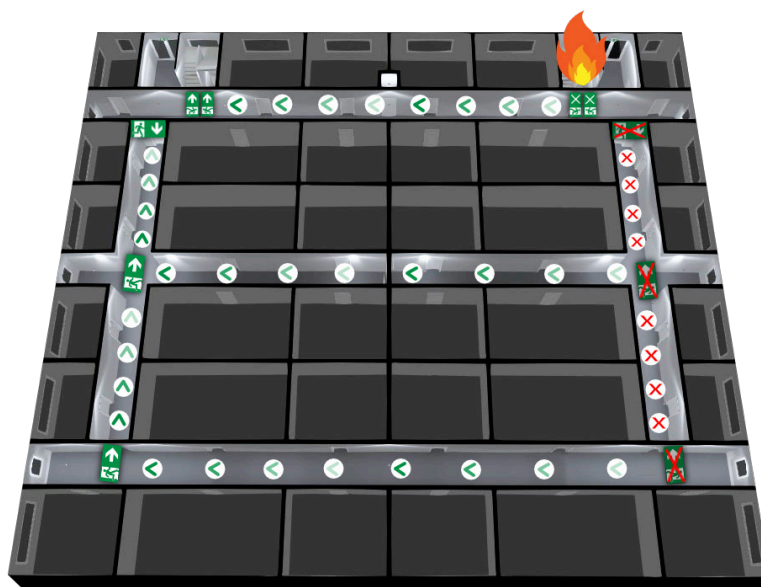
Control of exit sign and safety luminaires, dynamic exit sign luminaires and dynamic luminous markers in mains and emergency operation dependent on danger from:

- Switch-on or switch-off of exit sign luminaires
- Switch-on or switch-off of safety luminaires
- Changing an escape route with dynamic exit sign luminaires and dynamic luminous markers
- Blocking an escape route with dynamic exit sign luminaires and dynamic luminous markers¹

¹ only with S24-sub stations



NORMAL



CASE OF FIRE

DYNAMIC EXIT SIGN LUMINAIRES



ESCAPE ROUTE TO THE RIGHT



ESCAPE ROUTE TO THE LEFT



ESCAPE ROUTE BLOCKED

DYNAMIC LUMINOUS MARKERS



ESCAPE ROUTE TO THE RIGHT



ESCAPE ROUTE TO THE LEFT



LUMINOUS MARKER SWITCHED OFF

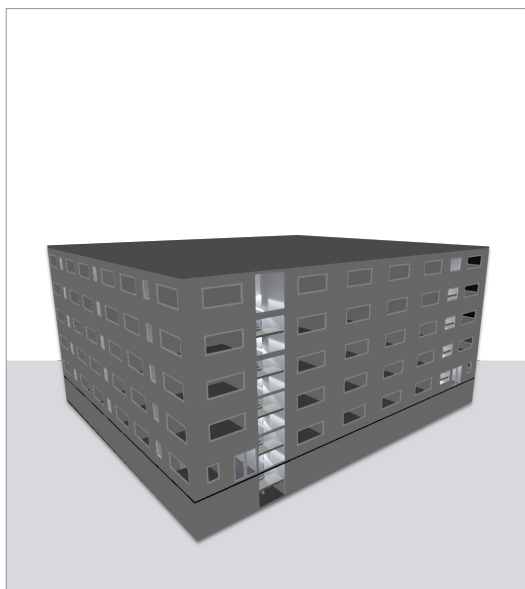


Automatic control over a danger signalling unit and:

- **1-times control input** for exit and safety luminaires
- **8-times control input** for dynamic exit sign luminaires and dynamic luminous markers

Communication between Sicuro24 / Sicuro230 and the exit sign and safety luminaires, dynamic exit sign luminaires and luminous markers **over a mains bus**

Suitable for safety lighting **in buildings or fire sections with several escape routes**



RISK-DEPENDING DUAL SELF-CONTAINED SUPPLY WITH S230

Supply of exit sign luminaires and safety luminaires in emergency operation dependent on a risk, e.g. an interruption of a cable between the central supply and an exit sign luminaire or safety luminaire, by switch-over to the battery of an optional S230 Disaster recovery module:

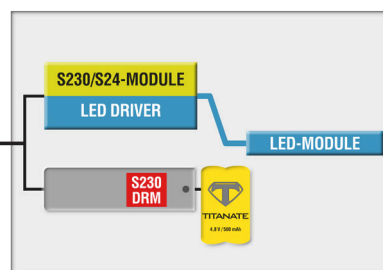
- **Mains operation:** supply from the mains
- **Emergency operation without disconnection:** supply from the battery of the Sicuro230 system
- **Emergency operation with disconnection:** supply from the battery of the S230 Disaster recovery module

MAINS OPERATION

230 V ~ ▶



230 V ~ ▶

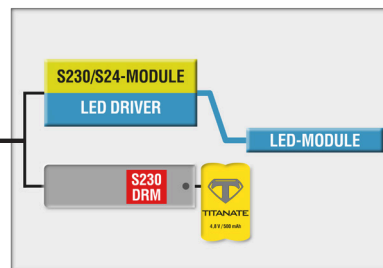


EMERGENCY OPERATION WITHOUT DISCONNECTION

230 V ~ ▶

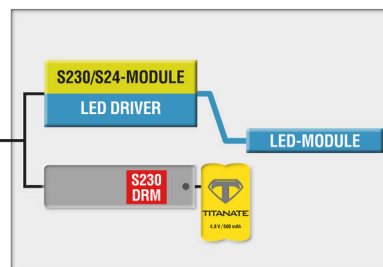


230 V = ▶



EMERGENCY OPERATION WITH DISCONNECTION

230 V ~ ▶



Increasing personal safety

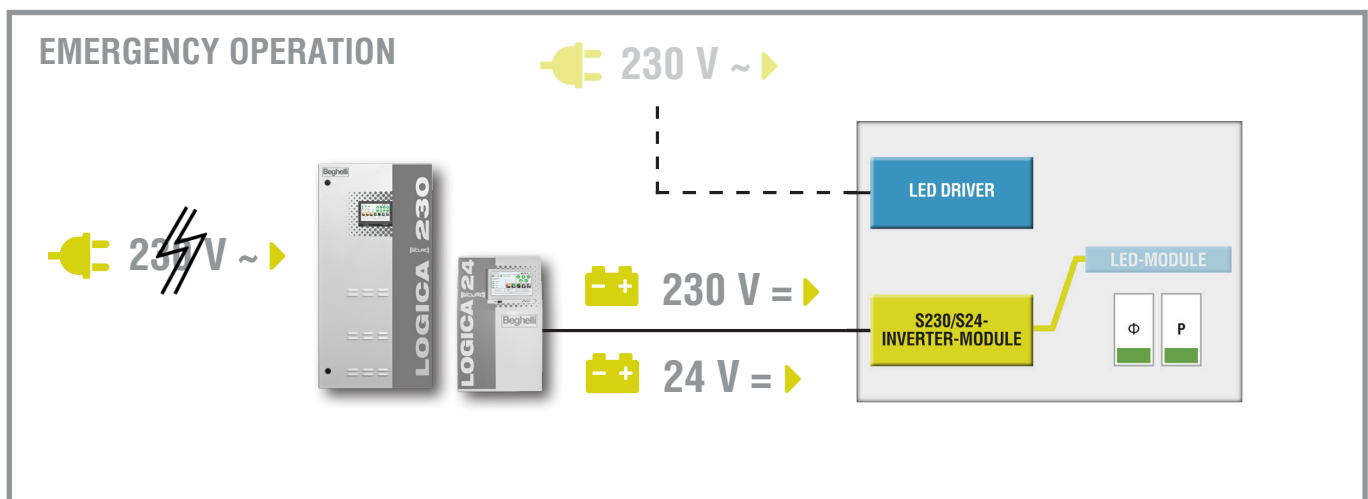
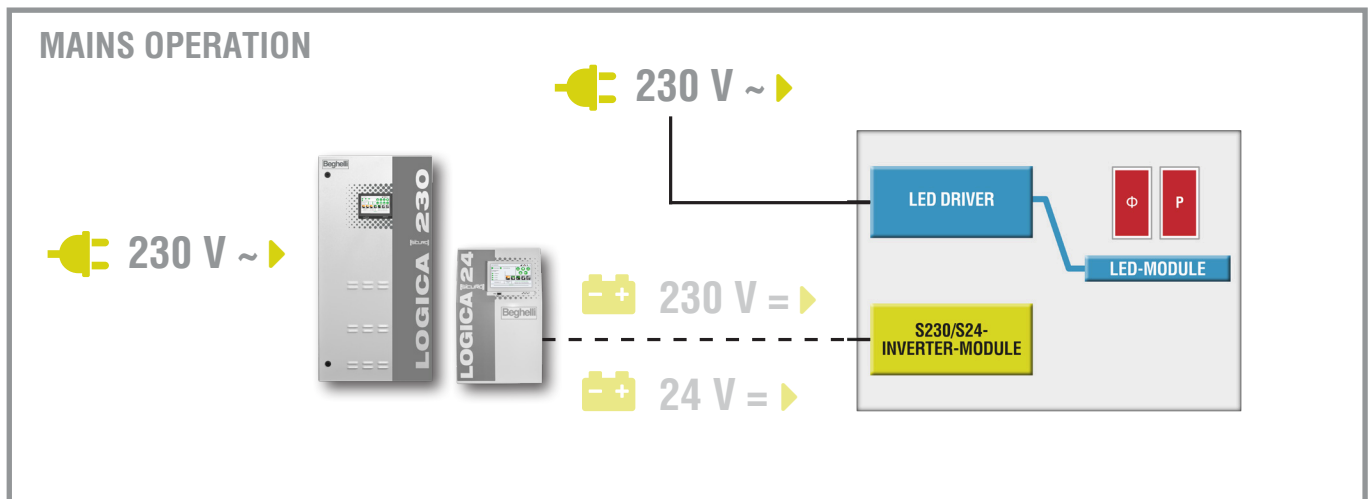
Ideal for safety lighting in areas of **increased personal hazard**

S230 Disaster recovery module with lithium-ion-titanate-battery, charging device and switchover device – easy integration in S230 exit sign and S230 safety luminaires

MODE-DEPENDING REDUCED SELF-CONTAINED SUPPLY WITH S230 AND S24

Supply of indoor and outdoor luminaires in emergency operation depending on the mode, by switching to the LED driver of an optional S230- or S24-inverter-module:

- **Mains operation:** operation of the LED module by the LED driver of the luminaire with non-reduced power
- **Emergency operation:** operation of the LED module by the LED driver of the S230- or S24-inverter-module with reduced power



Reduction of the battery capacity

S230-inverter-module with power output of 12 W and **S24-inverter-module** with power output of 6 W or 12 W

Ideal for safety lighting in areas with **higher design demands**

S230- and S24-inverter-module with LED-driver and switchover device – easy integration in indoor and outdoor luminaires



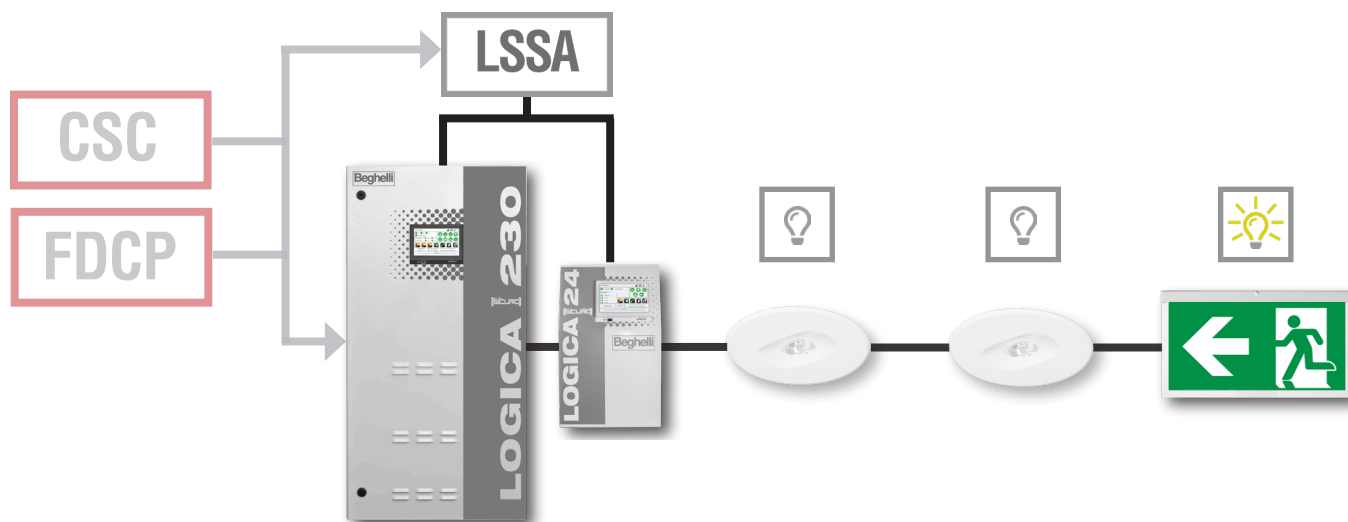
SELECTIVE STATIC CONTROL WITH SICURO230 AND SICURO24

Selective control of **static S230 / S24 exit sign luminaires and safety luminaires in mains and emergency operation** (on / off).

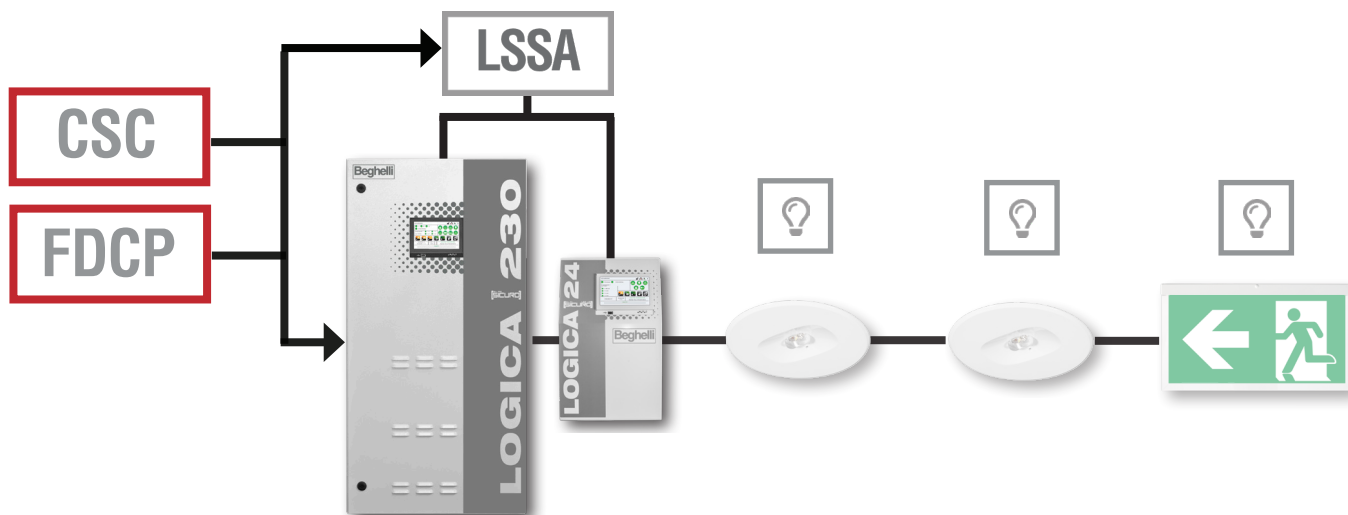
Individual control of circuits and / or luminaires by:

- 1 control input in S230-central station / -sub station or S24-compact station
- Each 1 control input in optional S230-modules resp. S230/S24-inverter-modules in indoor and outdoor luminaires
- Each 8 S24-control inputs in optional LSSA-modules in S230-main station / -sub station or mains distributors

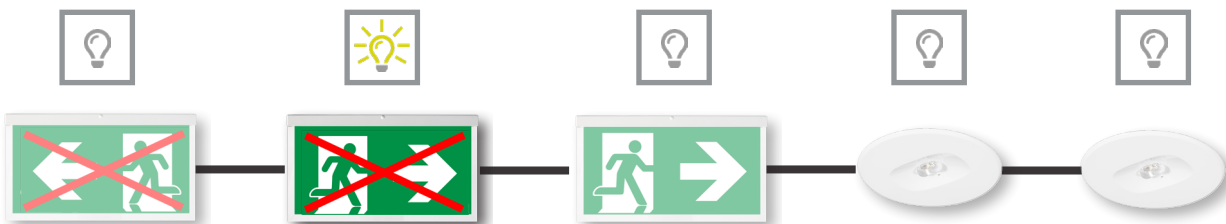
EXAMPLE SAFETY LIGHTING IN NORMAL CASE



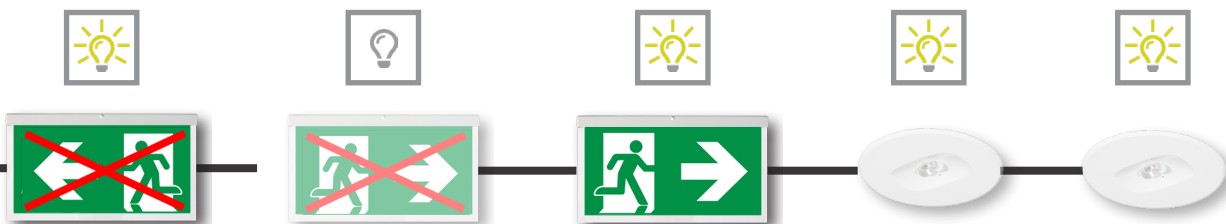
EXAMPLE SAFETY LIGHTING IN CASE OF DANGER

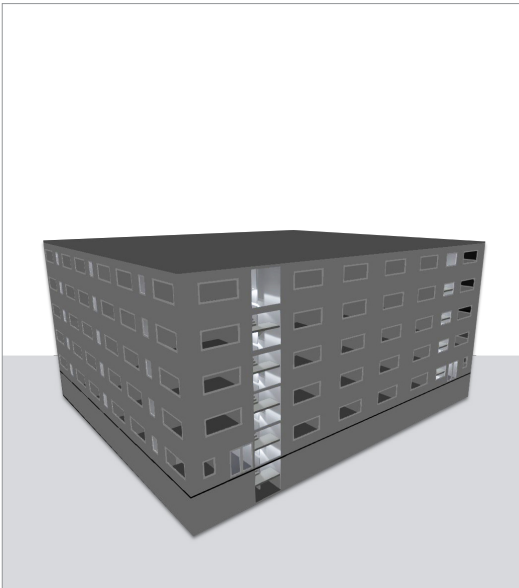


**CONTROL BY CSC (COMBINED SIGNALLING CENTRAL) OR
FDCP (FIRE DEPARTEMENT CONTROL PANEL)**



**CONTROL BY CSC (COMBINED SIGNALLING CENTRAL) OR
FDCP (FIRE DEPARTEMENT CONTROL PANEL)**





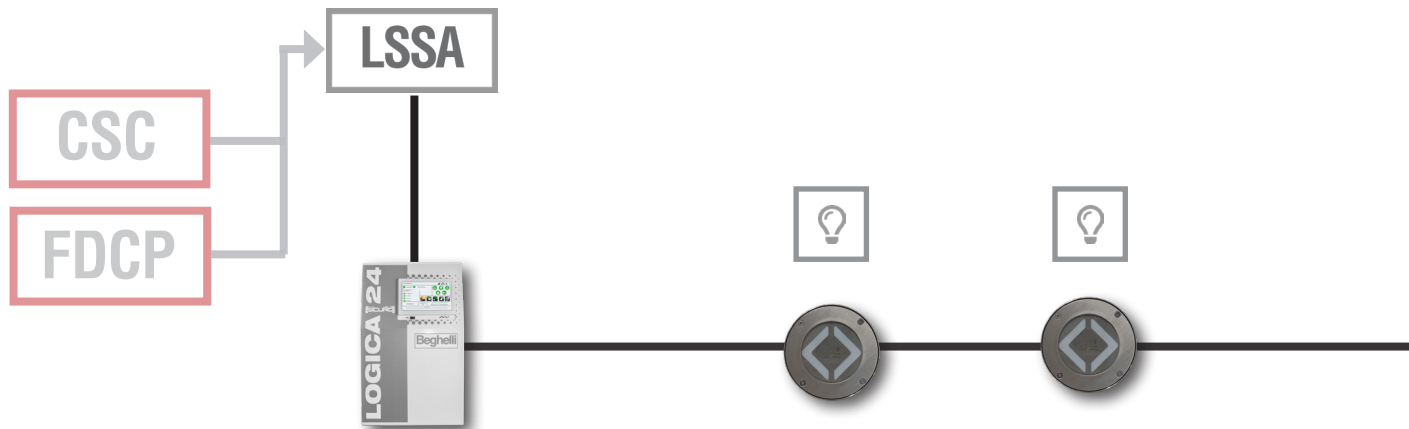
SELECTIVE DYNAMIC CONTROL WITH SICURO230 AND SICURO24

Control of the safety lighting by selective switching of **dynamic S24 exit sign luminaires** or **S24-luminous markers in mains operation and emergency operation** (on / off / changing an escape route / blocking an escape route), flashing at the same time or not flashing at the same time.

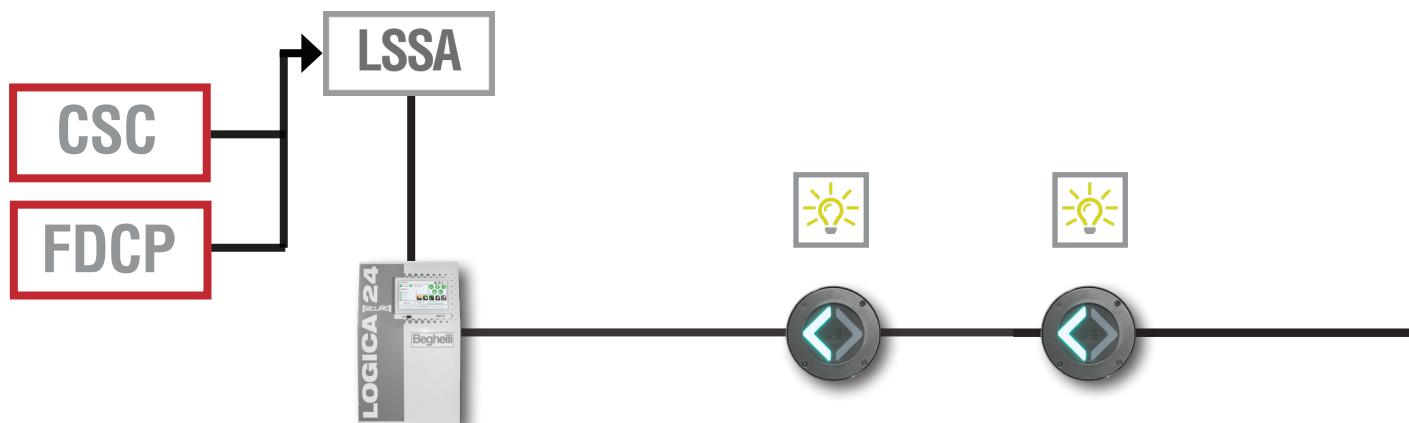
Individual control of circuits and / or luminaires by:

- each 8 control inputs in optional LSSA-modules in S24-station / -sub station or mains distributor

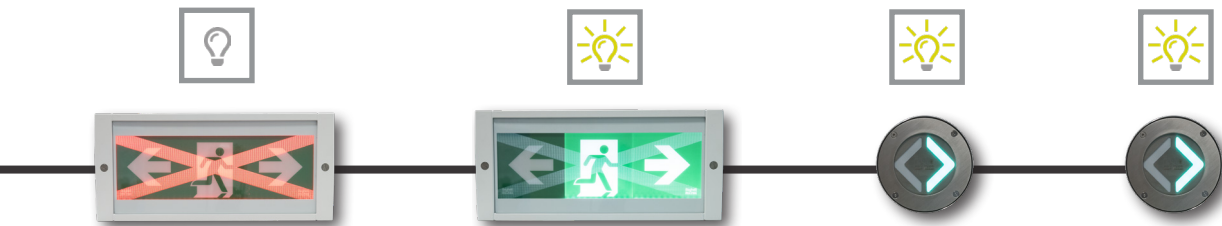
EXAMPLE DYNAMIC EXIT SIGN LUMINAIRES IN NORMAL CASE



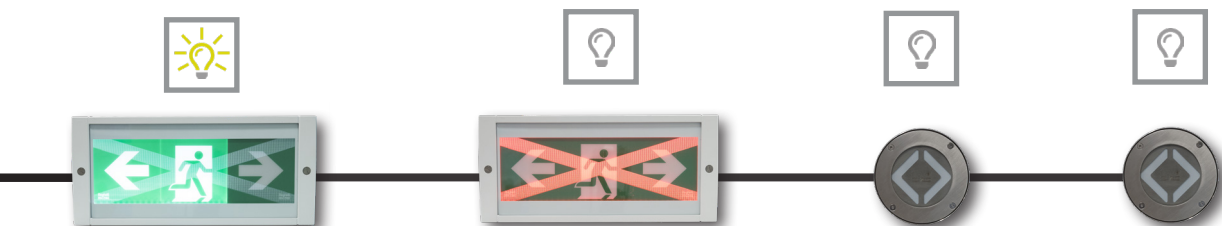
EXAMPLE DYNAMIC SAFETY LUMINAIRES IN CASE OF DANGER

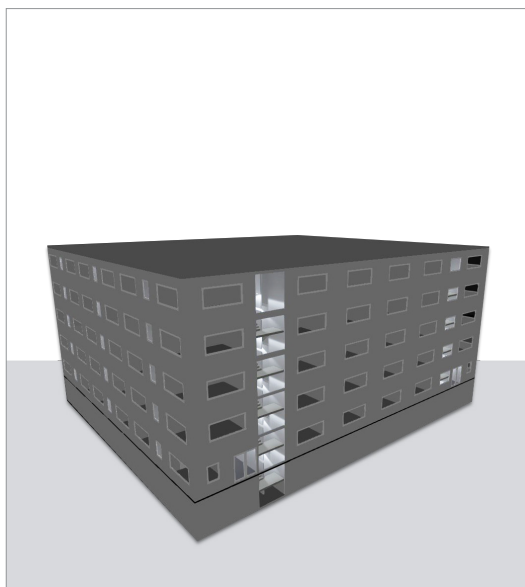


**CONTROL BY CSC (COMBINED SIGNALLING CENTRAL) OR FDCCP
(FIRE DEPARTMENT CONTROL PANEL) AND LSSA-MODULE**



**CONTROL BY CSC (COMBINED SIGNALLING CENTRAL) OR FDCCP
(FIRE DEPARTMENT CONTROL PANEL) AND LSSA-MODULE**





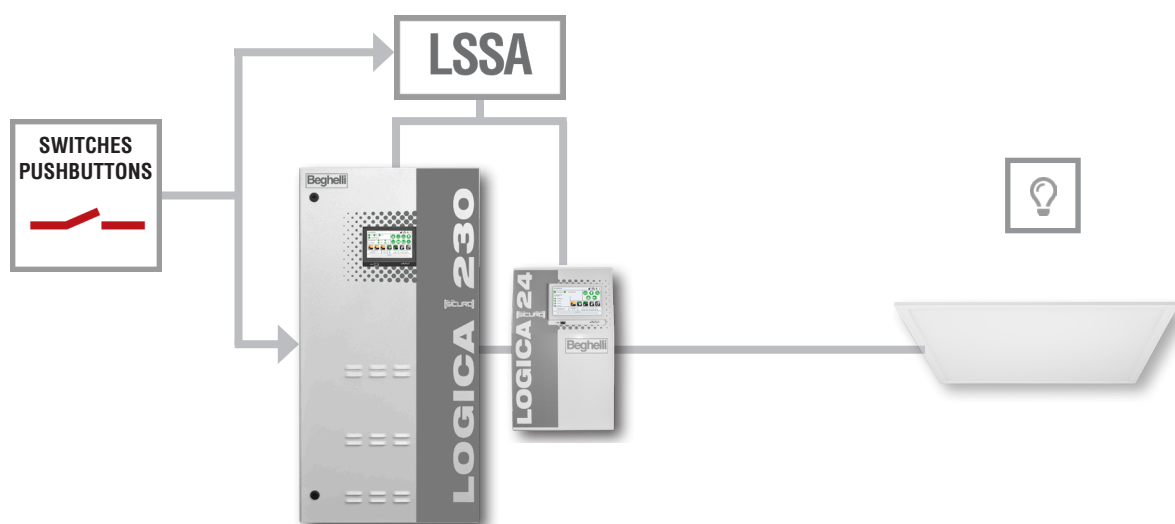
SELECTIVE CONTROL WITH SICURO230 AND SICURO24

Selective control of **indoor and outdoor luminaires in mains operation** (on / off).

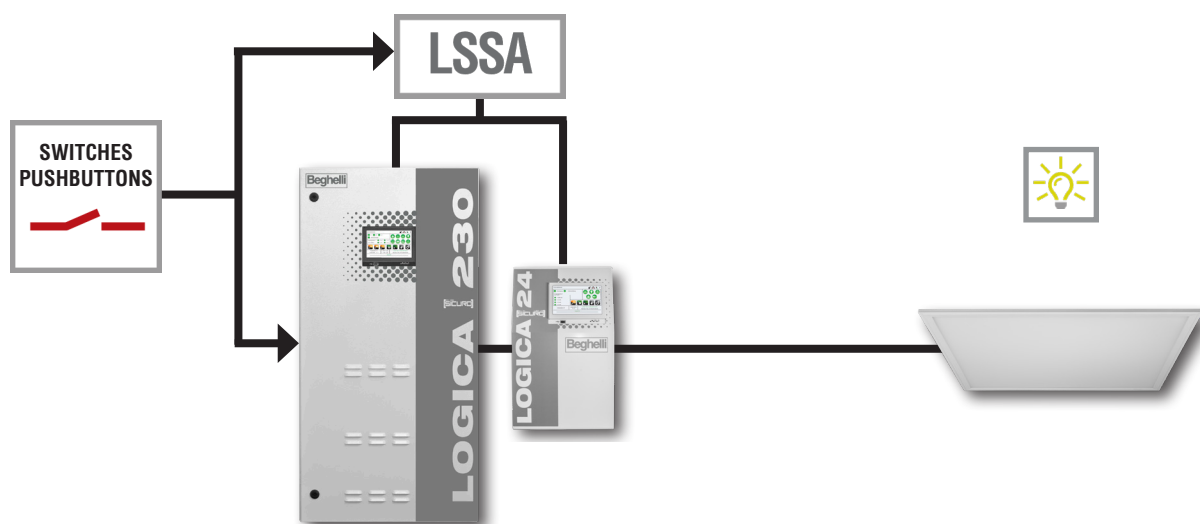
Individual control of circuits and / or luminaires by:

- Each 1 control input in S230-central station and S230- / S24-sub station- or S24-compact station
- Each 1 control input in optional S230-modules or S230- / S24-inverter-modules in indoor and outdoor luminaires
- Each 8 control inputs in optional LSSA-modules in S230-main station / -sub station or mains distributor

EXAMPLE: INDOOR OR OUTDOOR LUMINAIRES IN MAINS OPERATION SWITCHED OFF



EXAMPLE: INDOOR OR OUTDOOR LUMINAIRES IN MAINS OPERATION SWITCHED ON



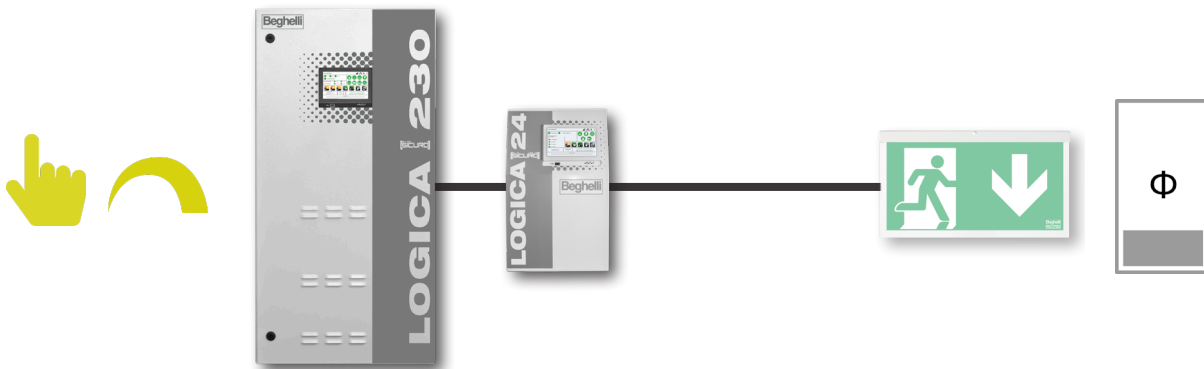
SELECTIVE DIMMING WITH SICURO230 AND SICURO24

Selective dimming (10 % to 100 %) of S230- or S24-exit sign luminaires **in mains operation**

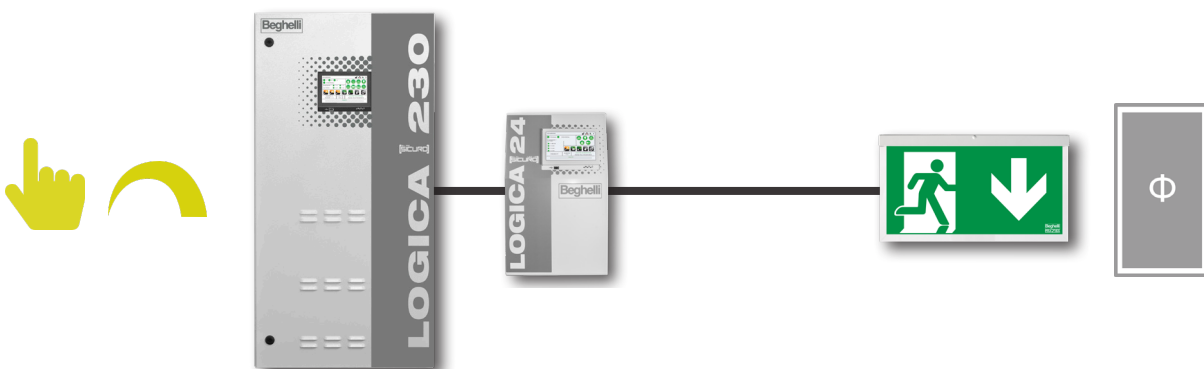
- Individual programming of the dimming



EXIT SIGN LUMINAIRES IN MAINS OPERATION DIMMED



EXIT SIGN LUMINAIRES IN MAINS OPERATION UNDIMMED

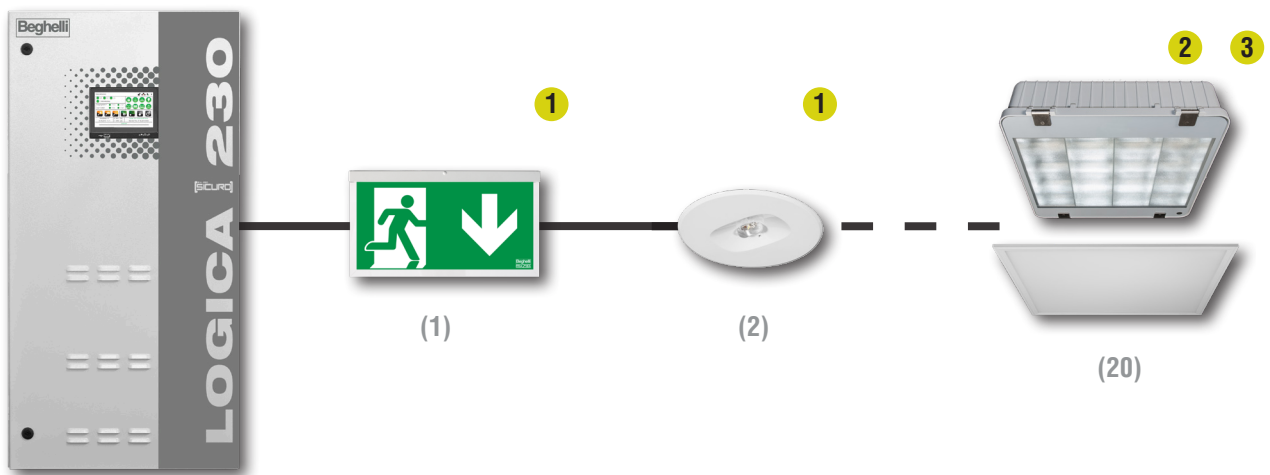




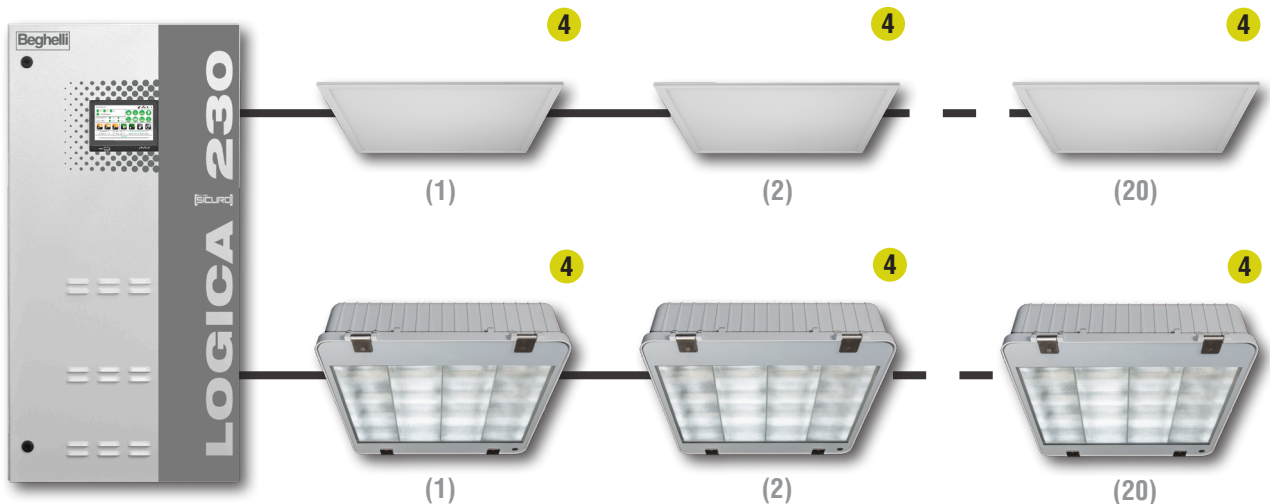
TESTING WITH S230 & S24

- Automatic testing of functions of S230- or S24-devices and luminaires as well as the battery
- Automatic storage of tests and faults of S230- or S24-devices and luminaires and as well as the battery
- Individual programming of
 - Test type
 - Test duration
 - Test start (day / time)

LUMINAIRE MONITORING



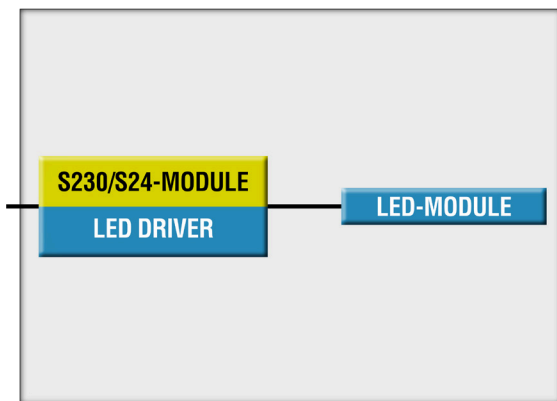
CIRCUIT MONITORING



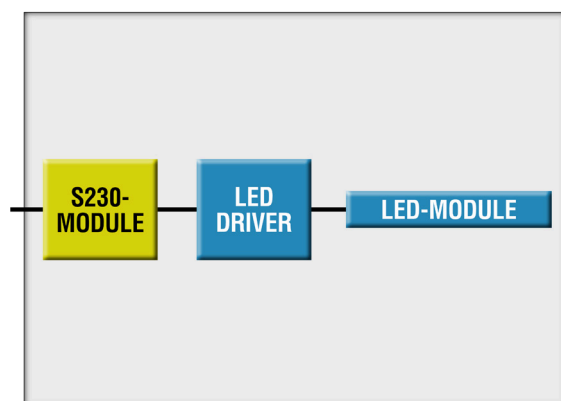
- Choice of selective luminaire or circuit monitoring
- Selective luminaire monitoring by:
 - 1 S230- / S24-exit sign luminaires and emergency luminaires
 - 2 S230-modules in indoor and outdoor luminaires
 - 3 S230- / S24-inverter-modules in indoor and outdoor luminaires
- Signalling of a luminaire fault with reference to the luminaire number

- Selective circuit monitoring by:
 - 4 Indoor and outdoor luminaires without S230-module resp. without S230- / S24-inverter-module
- Signalling of a luminaire fault without reference to the luminaire number

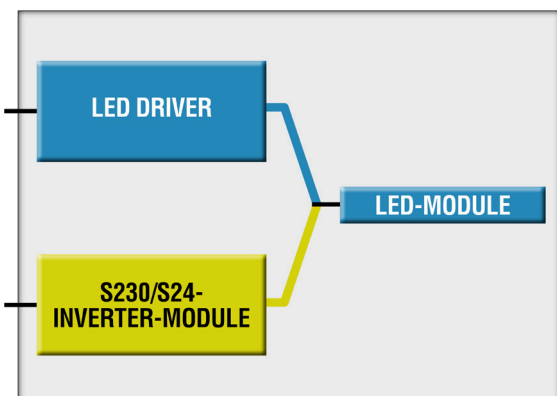
1 S230- / S24-EXIT SIGN LUMINAIRES AND SAFETY LUMINAIRES



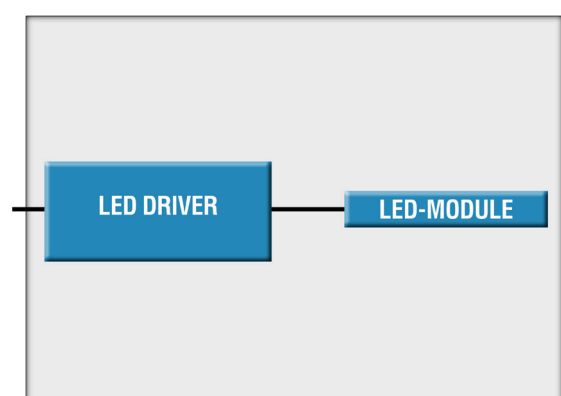
2 INDOOR AND OUTDOOR LUMINAIRES WITH S230-MODULE



3 INDOOR AND OUTDOOR LUMINAIRES WITH S230- / S24-INVERTER-MODULE



4 INDOOR AND OUTDOOR LUMINAIRES WITHOUT S230-MODULE RESP. WITHOUT S230- / S24-INVERTER-MODULE










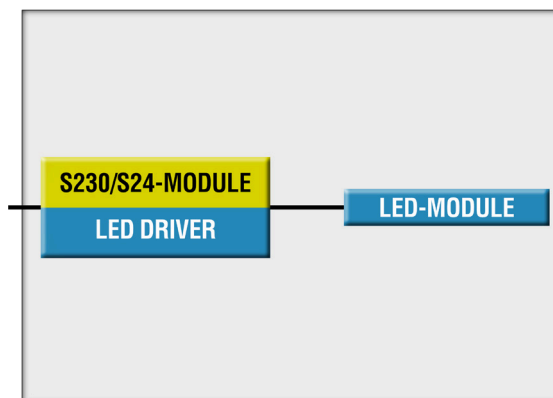


LUMINAIRES FOR SICURO230 AND SICURO24








- S230- and S24-exit sign and emergency luminaires
 - Individual programming of the operating mode per luminaire or circuit
- Indoor and outdoor luminaires with S230-module
 - Individual programming of the operating mode per luminaire or circuit
 - Integrated LSSA-control input

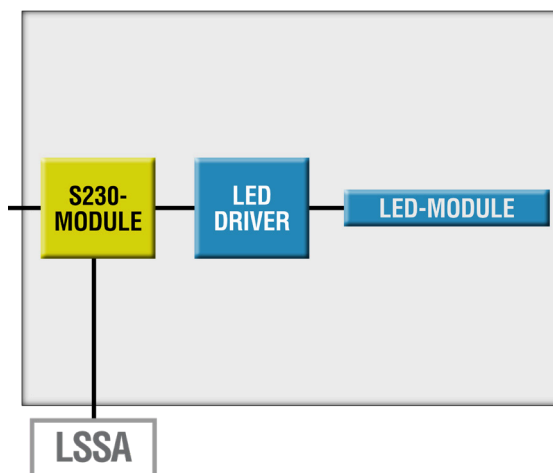
S230- AND S24-EXIT SIGN LUMINAIRES AND SAFETY LUMINAIRES FOR S230- AND S24-DEVICES

-  **LED driver**
-  **Control device**
-  Programmable operating mode
-  Combinable operating mode
-  **Monitoring device**
-  Luminaire monitoring
-  **Automatic & manual addressing**
(only automatic addressing for S24-luminaires)










INDOOR AND OUTDOOR LUMINAIRES WITH S230-MODULE FOR S230-DEVICES

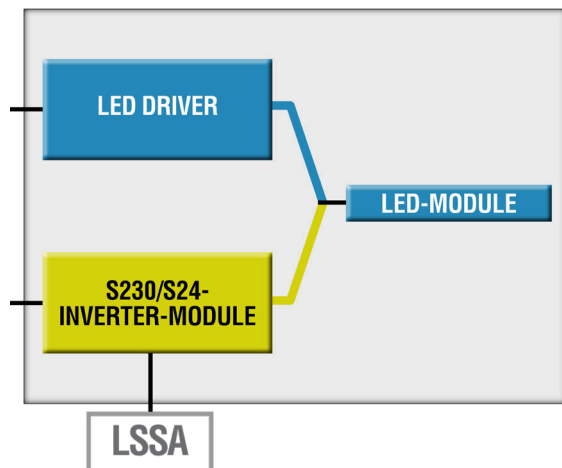
-  **Control device**
-  Programmable operating mode
-  Combinable operating mode
-  **Monitoring device**
-  Luminaire monitoring
-  **Automatic & manual addressing**
(only automatic addressing for S24-luminaires)
-  **LSSA** **LSSA-control input**




- Indoor and outdoor luminaires with S230- and S24-inverter-module
 - Integrated LSSA-control input
- Indoor and outdoor luminaires with electronic operating unit for LED lamps and discharge lamps
 - Individual programming of the operating mode per luminaire or circuit



INDOOR AND OUTDOOR LUMINAIRES WITH S230- AND S24-INVERTER-MODULE FOR S230- UND S24-DEVICES

-  **LED driver**
-  **Control device**
-  **Combinable operating mode**
-  **Monitoring device**
-  **Luminaire monitoring**
-  **Automatic & manual addressing**
(only automatic addressing for S24-luminaires)
-  **LSSA-control input**



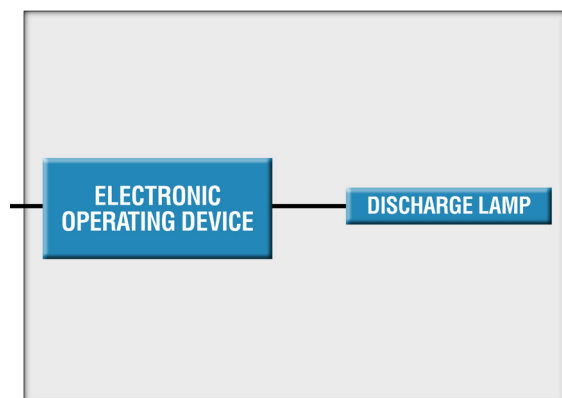
INDOOR AND OUTDOOR LUMINAIRES FOR S230-DEVICES

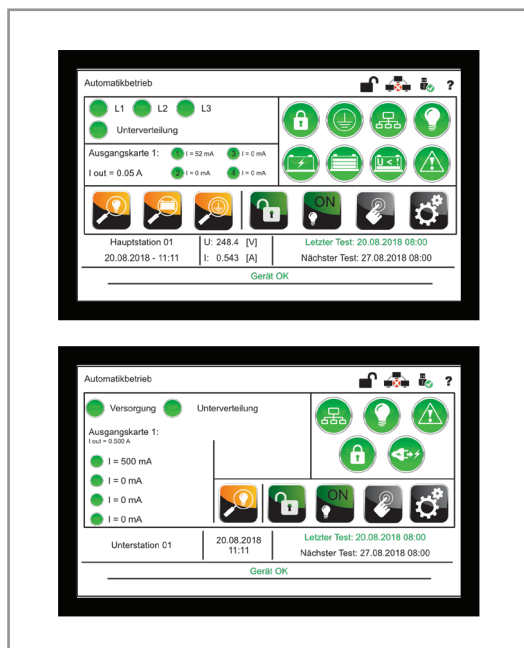
-  **Electronic operating device for discharge lamp compliant with:**
 - DIN EN 61347-1
 - DIN EN 61347-2-3
 - DIN EN 61347-2-7
 - DIN EN 61347-2-13

- Operating mode**
-  Programmable operating mode
-  No Combinable operating mode

Monitoring

-  Circuit monitoring





SICURO230 AND SICURO24 FUNCTIONS

CONTROL AND MONITORING

- **Static** control of the safety lighting by:
 - Selective control of exit sign luminaires and safety luminaires in mains operation and emergency operation (on / off)
- **Dynamic** control of safety luminaires by:
 - Selective control of dynamic exit sign luminaires and luminous markers in mains operation and emergency operation (on / off / changing an escape route / blocking an escape route), flashing at the same time or not flashing at the same time (only for S24)
- Selective **switchover** from **mains operation in emergency operation**
- Selective **switchover** from **emergency operation in mains operation**
- Selective **dimming** (10 % to 100 %) in **mains operation**
- Automatic testing of the function of the S230 or S24 system, luminaires as well as the battery
- Automatic storage of safety lighting tests and faults
- Automatic luminaire monitoring (S230 and S24) or circuit monitoring (S230)
- Luminaire monitoring by:
 - Integrated S230- and S24-modules in safety luminaires and exit sign luminaires
 - Separate S230- and S24-inverter modules in indoor and outdoor luminaires
 - Separate S230-modules in indoor and outdoor luminaires
 - Automatic addressing (S230 and S24) or manual addressing (S230)
- Programmable operating mode for each luminaire (luminaire monitoring) and / or each circuit (circuit monitoring)
 - Maintained mode
 - Non-maintained mode
 - Switchable maintained / non-maintained mode

MAINS MONITORING

- Internal mains monitoring for mains supply of S230- and S24 systems
- Control input for mains monitoring of the mains supply of the general lighting by means of optional mains monitoring modules

LSSA INPUT

- 1 (S230) or 4 (S24) LSSA inputs, free programmable, for switching the luminaires and / or circuits
 - **Control signal:** 230 V AC

CONTROL INPUTS AND CONTROL OUTPUTS

- 1 control input, permanently programmed, for switching of¹
 - Maintained mode (on / off), switching signal: contact, potential-free
 - **Control signal:** contact, potential-free
- 1 control input, free programmable, for switching of
 - Operational condition (on / off)
 - Function test (start)
 - Duration test (start)
 - Non-maintained mode (off)
 - Deep discharge (reset)
 - LSSA (24 V)
 - **Control signal:** contact, potential-free
- 3 control inputs, permanently programmed, for signalling of
 - Operational condition
 - Battery operation
 - Collective fault
- 3 control outputs, free programmable, for signalling of
 - Charging status
 - Battery status
 - Circuit status
 - Luminaire status
 - Operational condition
 - Mains failure
 - Battery operation
 - Test operation
 - Deep discharge
 - Fan
 - **Control signal:** contact, potential-free

¹ The control input can also be used as LSSA input

INTERFACES

RS485-bus for communication to:

- Sicuro remote panel
- PC with optional software Logica Visual
- Building management system via a modbus (functions via modbus: notification of system configuration, system status and system faults)

Ethernet bus for communication to:

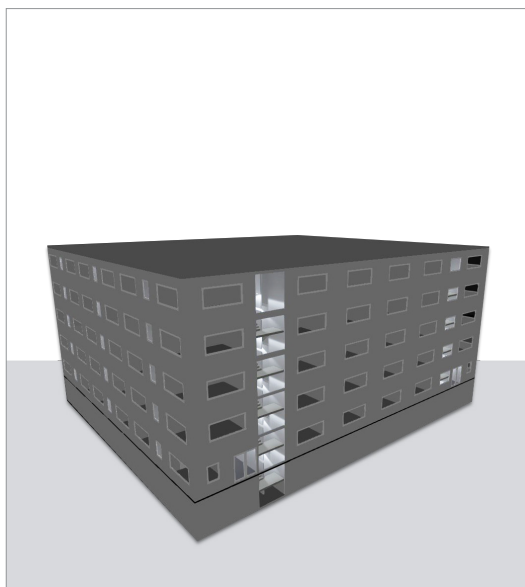
- Sicuro remote panel
- PC with optional software Logica Visual via intranet
- Web server via the internet (functions via web server: manual function test (start), output of test results, operational condition (on / off) and maintained mode (on / off))

USB interface for:

- Upload / download of system configuration
- Download of test results
- Software updates for S230- and S24 system, S230-modules and S24-inverter-modules

OPERATION

Operation via coloured 7" touch screen with graphic and alpha-numeric interface for input and output of all parameters and data, password protection can be activated, multilingual, and 3 status LEDs for indication of mains operation, battery operation and collective fault



INTERFACES SICURO230 AND SICURO24

Remote monitoring and remote control:

- Sicuro Remote Panel for max. 96 S230-central stations and / or S24-stations
- Internal PC via intranet (optional software Logica Visual required)
- External PC via internet
- Building management system via modbus



ETHERNET

 **TEST** Function test (start)

    Operating mode (switch)

RS485



ETHERNET

 **TEST** Function test (start)

    Operating mode (switch)

RS485



ETHERNET

 **TEST** Function test (start)

    Operating mode (switch)



MODBUS TCP

MODBUS RTU

Notification

-  Status
-  Faults
-  Tests

Notification

-  Status
-  Faults
-  Tests

Notification

-  Status
-  Faults
-  Tests

Notification

-  Status
-  Faults
-  Tests





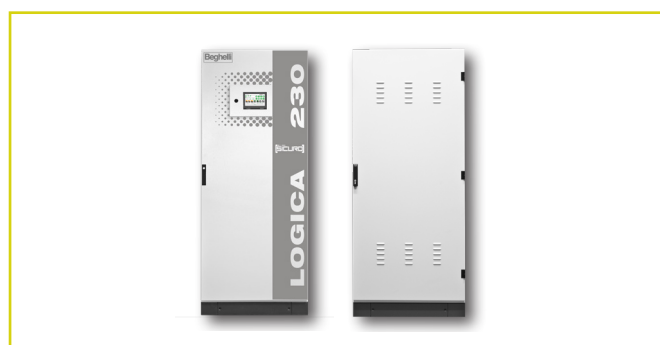
CENTRAL SUPPLY SICURO230

The central supply Sicuro230 is based on one **central station and a maximum of 32 sub stations**, connected via two separate mains and battery cables or a combined mains and battery cable and a bus cable.

Note: Sicuro230 can also be supplied without a charging device and battery, by using a mains replacement system or a dual mains.

CENTRAL STATIONS

Versions with battery, charging, switchover, control and monitoring as well as distributor with internal luminaire circuits. Further external luminaire circuits can be optionally realised. Modular conception of the central stations with exchangeable components.



S230Z-H-S

| TYPE | |
|--------------------|-------|
| DESCRIPTION | |
| BATTERY TYPE | |
| BATTERY CAPACITY | |
| BATTERY VOLTAGE | |
| BATTERY CURRENT | 1 h |
| | 1.5 h |
| | 2 h |
| | 3 h |
| | 8 h |
| BATTERY POWER | 1 h |
| | 1.5 h |
| | 2 h |
| | 3 h |
| | 8 h |
| CHARGE | |
| LUMINAIRE CIRCUITS | |
| | |
| SUB STATIONS | |

Version with separate electronic and battery cabinet as standing cabinets

sealed Pb battery

7 Ah to 230 Ah

216 V

4.4 A to 167.8 A¹

3.2 A to 124 A¹

2.6 A to 98 A¹

1.8 A to 71.4 A¹

0.8 A to 31.6 A¹

950 W to 36 kW¹

690 W to 27 kW¹

560 W to 21 kW¹

389 W to 15 kW¹

173 W to 6.8 kW¹

max. 16 modules 246 V / 2 A

max. 8 / 16 / 24 internal modules:

- 1 x 230 V / 6 A
- 2 x 230 V / 3 A
- 4 x 230 V / 1.5 A

max. 32 external modules:

- 2 x 230 V / 1.75 A
- 4 x 230 V / 1.75 A

mains operation: ~

emergency operation: =

max. 32

¹ Data excluding aging reserve

**S230Z-H-SK**

Version with combined electronic and battery cabinet as standing cabinet

sealed Pb battery

7 Ah to 110 Ah

216 V

4.4 A to 78.3 A¹

3.2 A to 57 A¹

2.6 A to 45 A¹

1.8 A to 33.3 A¹

0.8 A to 14.5 A¹

950 W to 19.9 kW¹

690 W to 12 kW¹

560 W to 9.8 kW¹

389 W to 7.2 kW¹

173 W to 3.1 kW¹

max. 4 modules 246 V / 2 A

max. 13 internal modules:

- 1 x 230 V / 6 A
- 2 x 230 V / 3 A
- 4 x 230 V / 1.5 A

max. 32 external modules:

- 2 x 230 V / 1.75 A
- 4 x 230 V / 1.75 A

mains operation: ~

emergency operation: =

max. 6

**S230Z-H-SK/MINI / S230Z-H-WK**

Version with combined electronic and battery cabinet as standing or wall cabinet

sealed Pb battery

7 Ah to 12 Ah / 7 Ah to 28 Ah

216 V

4.4 A to 8.1 A / 25 A¹

3.2 A to 5.7 A / 15 A¹

2.6 A to 4.5 A / 11.7 A¹

1.8 A to 3.3 A / 10 A¹

0.8 A to 1.4 A / 4.3 A¹

950 W to 1.7 kW / 5.4 kW¹

690 W to 1.20 kW / 3.2 kW¹

560 W to 972 W / 2.5 kW¹

389 W to 713 W / 2.1 kW¹

173 W to 302 W / 929 W¹

max. 2 modules 246 V / 2 A

max. 5 internal modules:

- 1 x 230 V / 6 A
- 2 x 230 V / 3 A
- 4 x 230 V / 1.5 A

max. 32 external modules:

- 2 x 230 V / 1.75 A
- 4 x 230 V / 1.75 A

mains operation: ~

emergency operation: =

none

¹ Data excluding aging reserve



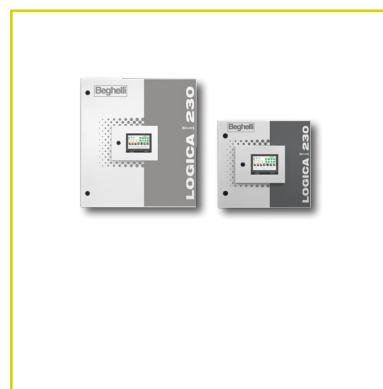
CENTRAL SUPPLY SICURO230

The central supply Sicuro230 is based on **one central station and a maximum of 32 sub stations**, connected via two separate mains and battery cables or a combined mains and battery cable and a bus cable.

SUB STATIONS

Sub stations with control and monitoring as well as distributors with internal luminaire circuits. Further external luminaire circuits can be optionally realised. Modular conception of the sub stations with exchangeable components.

| TYPE | S230Z-U-S | | S230Z-U-W / S230Z-U-W/MINI | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DESCRIPTION | Version as standing cabinet | | Version as wall cabinet without function integrity | |
| LUMINAIRE CIRCUITS | max. 8 / 16 / 24 / 32 internal modules: <ul style="list-style-type: none"> ● 1 x 230 V / 6 A ● 2 x 230 V / 3 A ● 4 x 230 V / 1.5 A max. 32 external modules: <ul style="list-style-type: none"> ● 2 x 230 V / 1.75 A ● 4 x 230 V / 1.75 A mains operation: ~ emergency operation: = | | max. 8 / 16 internal modules: <ul style="list-style-type: none"> ● 1 x 230 V / 6 A ● 2 x 230 V / 3 A ● 4 x 230 V / 1.5 A mains operation: ~ emergency operation: = | |





S230Z-U-W/E30

Version as wall cabinet **with** function integrity

max. 8 modules:

- 1 x 230 V / 6 A
- 2 x 230 V / 3 A
- 4 x 230 V / 1.5 A

mains operation: ~
 emergency operation: =



S24Z-U

Version as wall cabinet **without** function integrity

max. 1 module:

- 4 x 24 V / 3 A

mains operation: =
 emergency operation: =



S24Z-U/E30

Version as wall cabinet **with** function integrity

max. 1 module:

- 4 x 24 V / 3 A

mains operation: =
 emergency operation: =

Function integrity for 30 minutes in a cabinet approved by the DIBt (German Institute for Structural Engineering) and additional fire testing with electrical equipment by a material testing institute

Function integrity for 30 minutes in a cabinet approved by the DIBt (German Institute for Structural Engineering) and additional fire testing with electrical equipment by a material testing institute



INTERNAL LUMINAIRE CIRCUIT MODULES FOR S230

Luminaire circuit modules for internal use in S230 central station or S230 sub station. Modules with 1, 2 or 4 luminaire circuits for luminaire and circuit monitoring as well as luminaire and circuit control:

- Selective monitoring per luminaire (luminaire monitoring) or per circuit (circuit monitoring)
- Selective control per luminaire (luminaire monitoring) or per circuit (circuit monitoring)
- Programming of the operating mode per luminaire (luminaire monitoring) or per circuit (circuit monitoring)
- Button for addressing of the luminaire circuit module

Combined operation of modules with luminaire and circuit monitoring in a S230 central station or S230 sub station possible.



| TYPE | AK 1 X 32 EÜ | AK 1 X 32 SÜ |
|----------------|--------------------------------------|--------------------------------------|
| MONITORING | Luminaire monitoring | Circuit monitoring |
| DESCRIPTION | 1 circuit for 1 x 20 (32) luminaires | 1 circuit für 1 x 20 (32) luminaires |
| CONNECTED LOAD | 1 x 1.380 W | 1 x 1.380 W |
| INRUSH CURRENT | 430 A / 250 µs | 430 A / 250 µs |
| FUSE | 2 x 10 AT / 500 V | 2 x 10 AT / 500 V |
| ORDER CODE | 17233 | 17242 |



| TYPE | AK 2 X 32 EÜ | AK 2 X 32 SÜ |
|----------------|--------------------------------------|--------------------------------------|
| MONITORING | Luminaire monitoring | Circuit monitoring |
| DESCRIPTION | 1 circuit for 2 x 20 (32) luminaires | 1 circuit for 2 x 20 (32) luminaires |
| CONNECTED LOAD | 2 x 690 W | 2 x 690 W |
| INRUSH CURRENT | 2 x 215 A / 250 µs | 2 x 215 A / 250 µs |
| FUSE | 4 x 5 AT / 500 V | 4 x 5 AT / 500 V |
| ORDER CODE | 17232 | 17243 |



| TYPE | AK 4 X 32 EÜ | AK 4 X 32 SÜ |
|----------------|--------------------------------------|--------------------------------------|
| MONITORING | Luminaire monitoring | Circuit monitoring |
| DESCRIPTION | 1 circuit for 4 x 20 (32) luminaires | 1 circuit for 4 x 20 (32) luminaires |
| CONNECTED LOAD | 4 x 345 W | 4 x 345 W |
| INRUSH CURRENT | 4 x 107 A / 250 µs | 4 x 107 A / 250 µs |
| FUSE | 8 x 2.5 AT / 500 V | 8 x 2.5 AT / 500 V |
| ORDER CODE | 17234 | 17244 |



EXTERNAL LUMINAIRE CIRCUIT MODULES FOR S230

Luminaire circuit modules for external use. Modules with 2 or 4 luminaire circuits for luminaire and circuit monitoring as well as luminaire or circuit control:

- Selective monitoring per luminaire (luminaire monitoring) or per circuit (circuit monitoring)
- Selective control per luminaire (luminaire monitoring) or per circuit (circuit monitoring)
- Programming of the operating mode per luminaire (luminaire monitoring) or per circuit (circuit monitoring)
- Rotary switch for addressing of the luminaire circuit module
- LED for signalling of:
 - Operating mode
 - Collective fault
 - Luminaire or circuit fault
 - Bus fault
- Control output for signalling of:
 - Collective fault
 - Control signal: contact, potential-free

Housing: Polystyrene
Color: grey (RAL 7035)
Type of protection: IP65
Protection class: II

Combined operation of modules with luminaire and circuit monitoring in a S230 central station or S230 sub station possible.



| TYPE | eAK 2 X 32 EÜ | eAK 2 X 32 SÜ |
|----------------|---------------------------------------|---------------------------------------|
| MONITORING | Luminaire monitoring | Circuit monitoring |
| DESCRIPTION | 2 circuits for 2 x 20 (32) luminaires | 2 circuits for 2 x 20 (32) luminaires |
| CONNECTED LOAD | 2 x 400 W | 2 x 400 W |
| INRUSH CURRENT | 2 x 215 A / 250 µs | 2 x 215 A / 250 µs |
| FUSE | 4 x 3.15 AT / 500 V | 4 x 3.15 AT / 500 V |
| ORDER CODE | 30011 | 30013 |

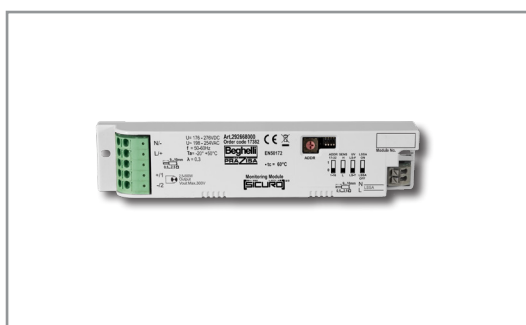
| TYPE | eAK 4 X 32 EÜ | eAK 4 X 32 SÜ |
|----------------|---------------------------------------|---------------------------------------|
| MONITORING | Luminaire monitoring | Circuit monitoring |
| DESCRIPTION | 4 circuits for 4 x 20 (32) luminaires | 4 circuits for 4 x 20 (32) luminaires |
| CONNECTED LOAD | 4 x 400 W | 4 x 400 W |
| INRUSH CURRENT | 2 x 215 A / 250 µs | 2 x 215 A / 250 µs |
| FUSE | 8 x 3.15 AT / 500 V | 8 x 3.15 AT / 500 V |
| ORDER CODE | 30012 | 30014 |



11KW SWITCH

Switchover module for voltage supply of S24-sub stations as well as optionally for S230-sub stations or external luminaire circuit modules in a combined mains and battery supply cable with a max. connected load of 11.000 W.

- Switchover between mains and battery supply
- Overvoltage protection and current limitation
- Button for addressing
- 6 status LEDs for several signalling



S230-MODULE / S230-DALI-MODULE

Monitoring and control module with selectable automatic or manual addressing for indoor and outdoor luminaires with electronic operating unit resp. DALI operating unit and LED lamps or discharge lamps.

- **Operating mode:** Maintained mode (switchable / not switchable), non-maintained mode (switchable / not switchable / programmable)
- **Monitoring:** Luminaire monitoring with selective fault message with inactive electronic operating unit resp. DALI operating unit
 - Monitoring power: 2.5 W to 500 W
- **Control:** LSSA control input for switching the luminaire with mains operation (on / off) or switching on the luminaire in emergency operation (mains monitoring)
 - Control signal: 0 V or 230 V

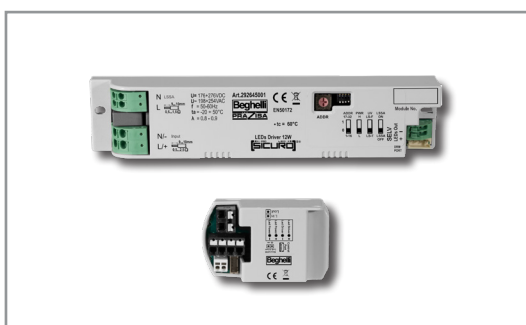
Additional functions with S230-DALI module:

- **Dimming in mains operation:** Dimming of luminaire via DALI signal from a DALI controller
 - Dimming level: 1 % to 100 %
- **Dimming in battery operation:** Dimming of luminaire via DALI signal of the S230 DALI module
 - Dimming level: 1 % to 100 % (programmable)
- Automatic activation of the power failure level with partial mains failures

Communication with the S230 central station or sub station via powerline bus.

| | |
|--------------------------------|------------------------|
| Mains voltage: | 198 V to 254 V |
| Battery voltage: | 176 V to 276 V |
| Mounting: | Luminaire installation |
| Housing: | Polycarbonate |
| Dimensions (H x W x D): | 24 x 152 x 32 mm |
| Type of protection: | IP20 |
| Protection class: | II |

| Order code | Description |
|------------|------------------|
| 17382 | S230-module |
| 17383 | S230-DALI-module |



S230-INVERTER-MODULE

Monitoring and control module with integrated LED driver and selectable automatic or manual addressing for indoor and outdoor luminaires with LED driver and LED module.

- **Operating mode:** Maintained mode (switchable / not switchable), non-maintained mode (switchable / not switchable / programmable)
- **Mains operation:** Operation of the LED module via the LED driver of the luminaire without reduced power
 - LED-module supply: 2 V to 55 V / max. 4 A
 - Power: Nominal power
- **Battery operation:** Operation of the LED module via the LED driver of the S230-inverter-module with reduced power
 - Monitoring power: 12 W
- **Control:** LSSA control input for switching the luminaire in mains operation (on / off) or switch-on of the luminaire in emergency mode (mains monitoring)
 - Control signal: 0 V or 230 V

Communication with the S230 central station or sub station via powerline bus.

| | |
|--------------------------------|------------------------------------|
| Mains voltage: | 198 V to 254 V |
| Battery voltage: | 176 V to 276 V |
| Mounting: | Luminaire installation |
| Housing: | Polycarbonate |
| Dimensions (H x W x D): | 24 x 152 x 32 mm + 24 x 50 x 32 mm |
| Type of protection: | IP20 |
| Protection class: | II |

| Order code | Description |
|------------|----------------------|
| 17381 | S230-inverter-module |

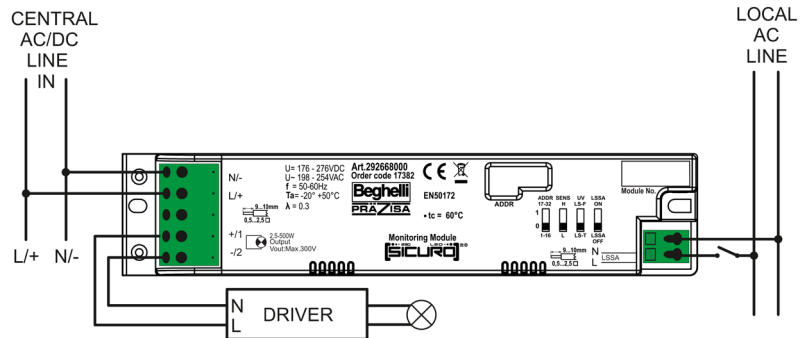
CALCULATION OF LIGHT FLUX:

Light flux in mains operation = 100 %

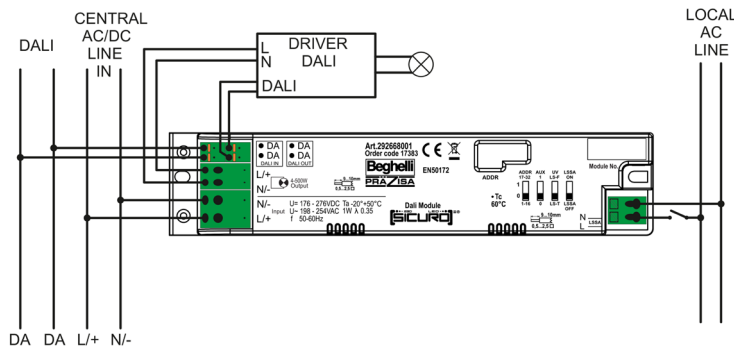
Light flux in battery operation =

$$\text{Light flux in mains operation} \times \frac{12 \text{ W}}{\text{power of LED-module}}$$

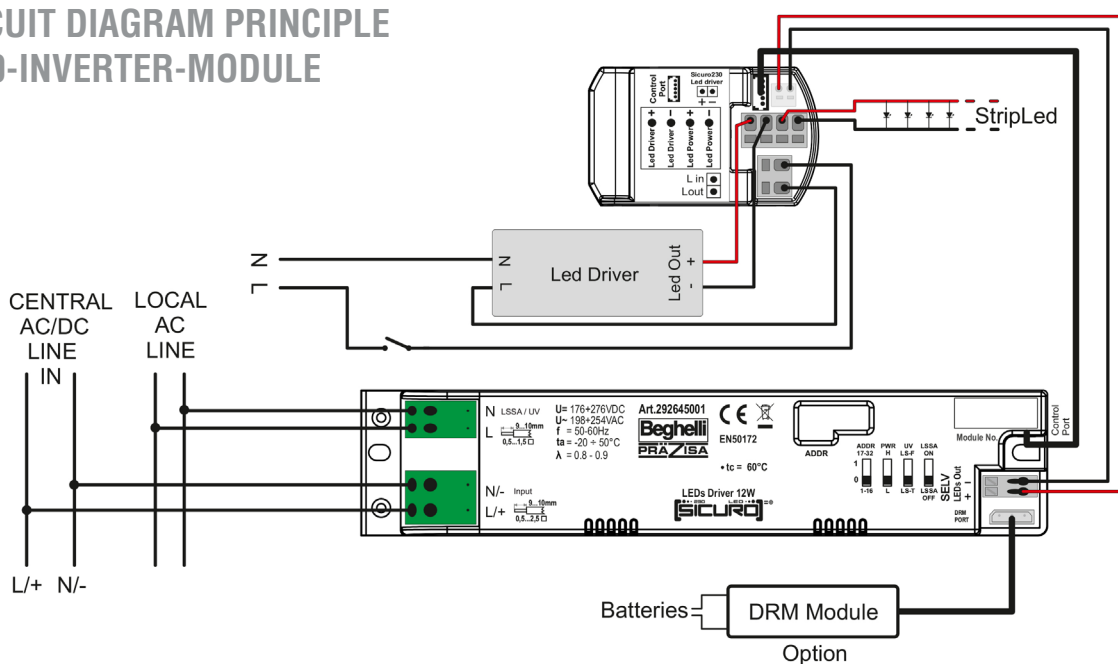
CIRCUIT DIAGRAM PRINCIPLE S230-MODULE

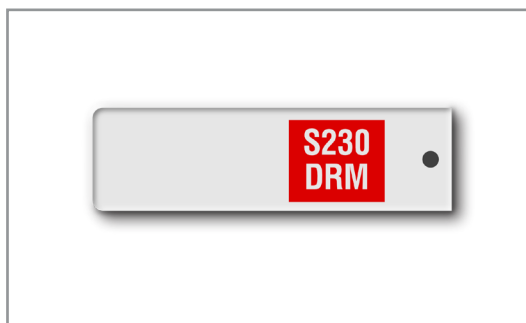


CIRCUIT DIAGRAM PRINCIPLE S230-DALI-MODULE



CIRCUIT DIAGRAM PRINCIPLE S230-INVERTER-MODULE





DISASTER RECOVERY MODULE FOR S230

Module with lithium-ion-titanate battery, charging device and switchover device for dual battery supply of S230 escape sign luminaires, S230 safety luminaires and indoor and outdoor luminaires with S230 inverter module.

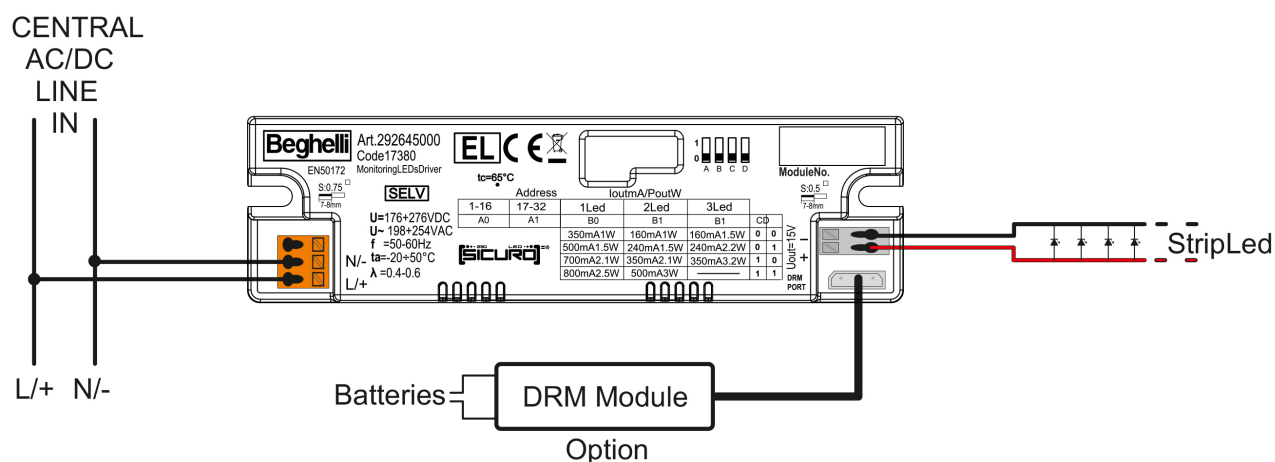
- **Mains operation:** Supply of the luminaire via the S230 central station or sub station
- **Emergency operation without disconnection:** Power supply of the luminaire via the S230 central station or sub station
- **Emergency operation with disconnection:** Power supply of the luminaire via the DRM

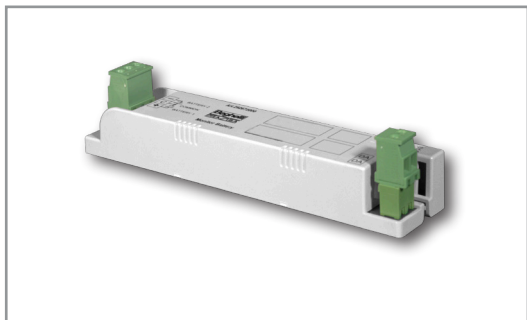
Automatic charging of the battery and switching in emergency operation with disconnection. Simple integration in S230 escape sign luminaires, S230 safety luminaires and indoor and outdoor luminaires with S230-inverter-module with plug connection.

| Order code | Description |
|------------|--------------------------|
| 17236 | Disaster recovery module |
| RA07 | Additional battery |

| | |
|--------------------------------|------------------------|
| Mounting: | Luminaire installation |
| Housing: | Polycarbonate |
| Dimensions (H x W x D): | 11 x 70 x 19 mm |
| Type of protection: | IP20 |

CIRCUIT DIAGRAM PRINCIPLE





BATTERY MANAGEMENT LIFE PLUS

The change of the internal resistance of individual battery blocks in a battery system leads to high or low block voltages at the individual battery blocks. If the voltages are not monitored and the charging of all battery blocks is not regulated, the destruction of individual battery blocks results in the destruction of all battery blocks. **With battery management Life Plus, the lifetime of the battery system can be extended by avoiding the destruction of all battery blocks in the event of the destruction of individual battery blocks.**

FUNCTIONS

- Automatic monitoring of the total voltage of all battery blocks
- Automatic monitoring of the individual voltage of all battery blocks
- Automatic regulation of the total voltage of all battery blocks
- Automatic regulation of the individual voltage of all battery blocks
- Signalling via the S230 controller of:
 - Total voltage of all battery blocks
 - Individual voltage of all battery blocks
 - Individual voltage of a battery block too low
 - Individual voltage of a battery block too high
 - Charge
 - Compensation charging

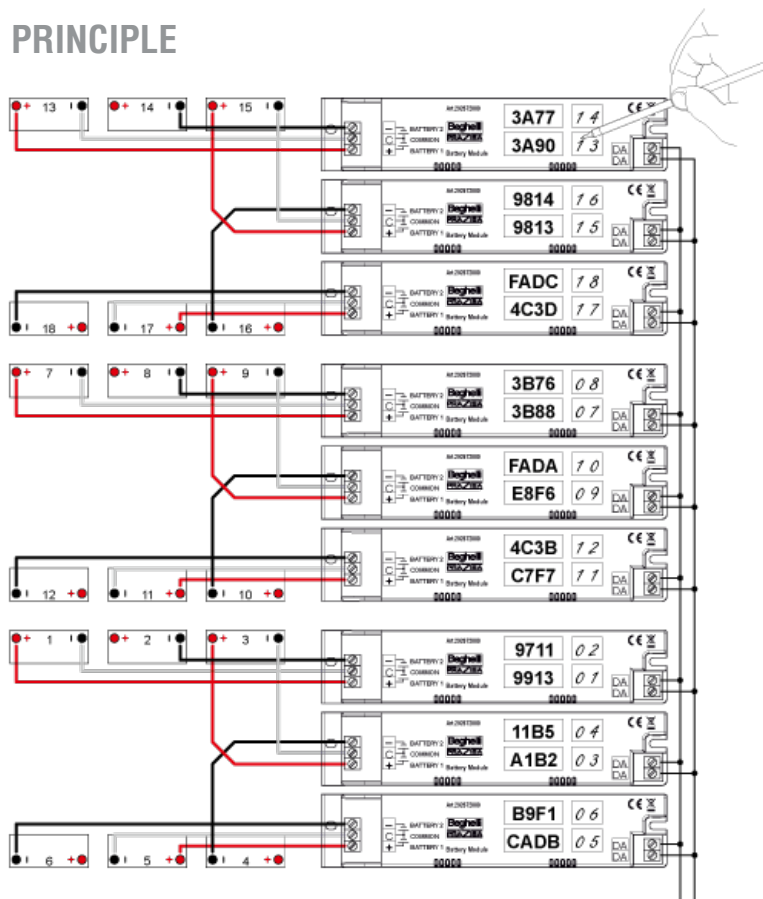
With compensation charging, the block voltages which are too high or too low are automatically increased or decreased.

Life Plus is 1 kit with 9 modules. The modules are positioned on the battery. With parallel connection of 1 to 4 battery systems, parallel connection of 1 to 4 Life Plus is possible. A cable bus handles communication between the Life Plus and the S230 controller.

Housing: Polycarbonate
Dimensions (H x W x D): 24 x 152 x 32 mm
Type of protection: IP20

| Order code | Description |
|------------|------------------------------|
| 17384 | Battery management Life Plus |

CIRCUIT DIAGRAM PRINCIPLE





| TYPE | | S230Z-H-S | S230Z-H-SK | S230Z-H-SK/ MINI | S230Z-H-WK |
|--------------------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| VERSION | | Version with separate electronic and battery cabinet as standing cabinets | Version with combined electronic and battery cabinet as standing or wall cabinet | | |
| BATTERY CAPACITY | | 7 to 230 Ah | 7 to 110 Ah | 7 to 28 Ah | 7 to 12 Ah |
| CHARGING MODULES | | max. 12 | max. 2 bzw. 4 | max. 2 | max. 2 |
| LUMINAIRE CIRCUIT MODULES (INTERNAL) | | max. 24 | max. 13 bzw. 10 | max. 5 | max. 5 |
| LUMINAIRE CIRCUIT MODULES (EXTERNAL) | | max. 32 or 16 | max. 32 | max. 32 | max. 32 |
| SUB STATIONS | | max. 20 | max. 4 | - | - |
| LSSA INPUTS | (INTERNAL) | 1 | 1 | 1 | 1 |
| LSSA MODULES | (INTERNAL) | max. 8 (optional) | max. 4 (optional) | max. 2 (optional) | max. 2 (optional) |
| LSSA MODULES | (EXTERNAL) | max. 96 (optional) | max. 96 (optional) | max. 96 (optional) | max. 96 (optional) |
| MOUNTING | | standing | standing | standing | wall |
| ELECTRONIC CABINET | | sheet steel, grey ¹ | sheet steel, grey ¹ | sheet steel, grey ¹ | sheet steel, grey ¹ |
| BATTERY CABINET ¹ | | sheet steel, grey ¹ | | | |
| DIMENSIONS (H x W x D) MM | | 2.000 x 800 x 600 | 2.000 x 800 x 600 | 1.520 x 650 x 400 | 1.200 x 600 x 350 |
| TYPE OF PROTECTION | electronic | IP54 | IP21 | IP21 | IP21 |
| | battery | IP21 | IP21 | IP21 | IP21 |
| PROTECTION CLASS | | I | I | I | I |
| SUPPLY | mains | 3 / N / PE | 3 / N / PE | 3 / N / PE | 3 / N / PE |
| | battery | 216 V = | 216 V = | 216 V = | 216 V = |
| AMBIENT TEMPERATURE | electronic | -5 °C to +35 °C | -5 °C to +35 °C | -5 °C to +35 °C | -5 °C to +35 °C |
| | battery | +20 °C | +20 °C | +20 °C | +20 °C |
| CABLE ENTRY | | above / below | above | above | above |
| CABLE CLAMPS | mains | min. 4 mm ² | min. 4 mm ² | min. 4 mm ² | min. 4 mm ² |
| | battery | min. 4 mm ² | min. 4 mm ² | min. 4 mm ² | min. 4 mm ² |
| | luminaires | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| | control inputs / outputs | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |

¹ RAL 7035

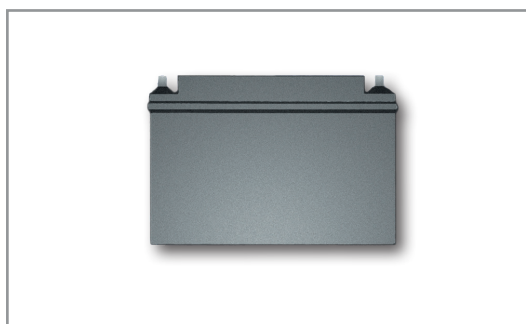
² RAL 9003 (white) or RAL 7016 (grey)



CHARGING MODULE S230

Charging module for temperature-regulated charging of batteries with charging state-dependent switching from charging to float charging. Automatic switch-off in the case of extreme temperature deviations to protect the batteries.

Charging voltage: 245.7 V (ambient temperature +20 °C)
Charging current: 2 A
Charge: UI characteristic curve



BATTERY

Batteries as sealed Pb batteries with grid electrodes and AGM separator compliant with EN 60896 and EUROBAT.

Service life: > 10 years (ambient temperature +20 °C)

| CAPACITY (Ah) | VOLTAGE (V) | CURRENT (A) ¹ | | | | | CONNECTED LOAD (W) ¹ | | | | | BATTERY | |
|---------------|-------------|--------------------------|-------|------|------|------|---------------------------------|--------|--------|--------|-------|----------------------|---------------------------|
| | | 1 h | 1.5 h | 2 h | 3 h | 8 h | 1 h | 1.5 h | 2 h | 3 h | 8 h | cabinet ² | compartement ³ |
| 7 | 216 | 4.4 | 3.2 | 2.6 | 1.8 | 0.8 | 950 | 691 | 561 | 389 | 173 | 1 | X |
| 12 | 216 | 8.1 | 5.7 | 4.5 | 3.3 | 1.4 | 1.750 | 1.231 | 972 | 713 | 302 | 1 | X |
| 18 | 216 | 11.9 | 8.5 | 6.8 | 4.9 | 2 | 2.570 | 1.836 | 1.466 | 1.065 | 432 | 1 | X |
| 28 | 216 | 20.7 | 15 | 11.7 | 8.4 | 3.7 | 4.471 | 3.234 | 2.533 | 1.821 | 799 | 1 | X |
| 33 | 216 | 25 | 17.7 | 14 | 10 | 4.3 | 5.400 | 3.832 | 3.019 | 2.160 | 929 | 1 | X |
| 44 | 216 | 31.1 | 22.5 | 17.8 | 12.9 | 5.7 | 6.718 | 4.856 | 3.846 | 2.786 | 1.231 | 1 | X |
| 55 | 216 | 39.9 | 29.3 | 23.1 | 16.5 | 7.2 | 8.618 | 6.328 | 4.980 | 3.564 | 1.555 | 1 | X |
| 70 | 216 | 52.6 | 38.6 | 30.9 | 22.4 | 10.2 | 11.362 | 8.335 | 6.675 | 4.383 | 2.203 | 1 | X |
| 80 | 216 | 61.3 | 43.9 | 34.5 | 24.9 | 11.1 | 13.241 | 9.477 | 7.461 | 5.378 | 2.398 | 1 | X |
| 100 | 216 | 72.6 | 52.5 | 41.7 | 30.3 | 13.4 | 15.682 | 11.311 | 9.006 | 6.545 | 2.894 | 1 | X |
| 110 | 216 | 78.3 | 57 | 45.6 | 33.3 | 14.5 | 16.913 | 12.303 | 9.845 | 7.193 | 3.132 | 1 | - |
| 120 | 216 | 83.9 | 61 | 48.7 | 35.7 | 15.8 | 18.122 | 13.185 | 10.522 | 7.711 | 3.416 | 1 | - |
| 135 | 216 | 107 | 78.8 | 62.8 | 44.8 | 19.4 | 23.112 | 17.027 | 13.563 | 9.677 | 4.190 | 1 | - |
| 150 | 216 | 110 | 80.3 | 63.3 | 45.5 | 19 | 23.760 | 17.343 | 13.668 | 9.828 | 4.104 | 1 | - |
| 200 | 216 | 140 | 104 | 83.8 | 61.2 | 27.3 | 30.240 | 22.516 | 18.101 | 13.218 | 5.897 | 1 | - |
| 230 | 216 | 167.8 | 124 | 98 | 71.4 | 31.6 | 36.245 | 26.851 | 21.228 | 15.422 | 6.826 | 2 | - |

¹ Data excluding aging reserve

² Version with separate battery cabinet

³ Version with combined electronic and battery cabinet

Note: Sicuro230 can also be supplied without a charging device and battery, by using a mains replacement system or a dual mains.



PROJECT PLANNING INFORMATION

For planning a central supply Sicuro230, the following information is required:

- Operating time (1 h / 1.5 h / 2 h / 3 h / 8 h)
- Battery capacity (Ah)
 - Can be calculated from the operating time and total power in battery operation
- Total power in mains operation (W)
- Total power in battery operation (W)

CENTRAL STATION

- Number of internal luminaire circuit modules in the central station:
 - AK 1 x 20 EÜ
 - AK 2 x 20 EÜ
 - AK 4 x 20 EÜ
 - AK 1 x 20 SÜ
 - AK 2 x 20 SÜ
 - AK 4 x 20 SÜ
 - Power per luminaire circuit
- Number of external luminaire circuit modules in the sub station:
 - eAK 2 x 20 EÜ
 - eAK 4 x 20 EÜ
 - eAK 2 x 20 SÜ
 - eAK 4 x 20 SÜ
- Number of LSSA modules in the central station:
 - LSSA 3+5
 - LSSA 8

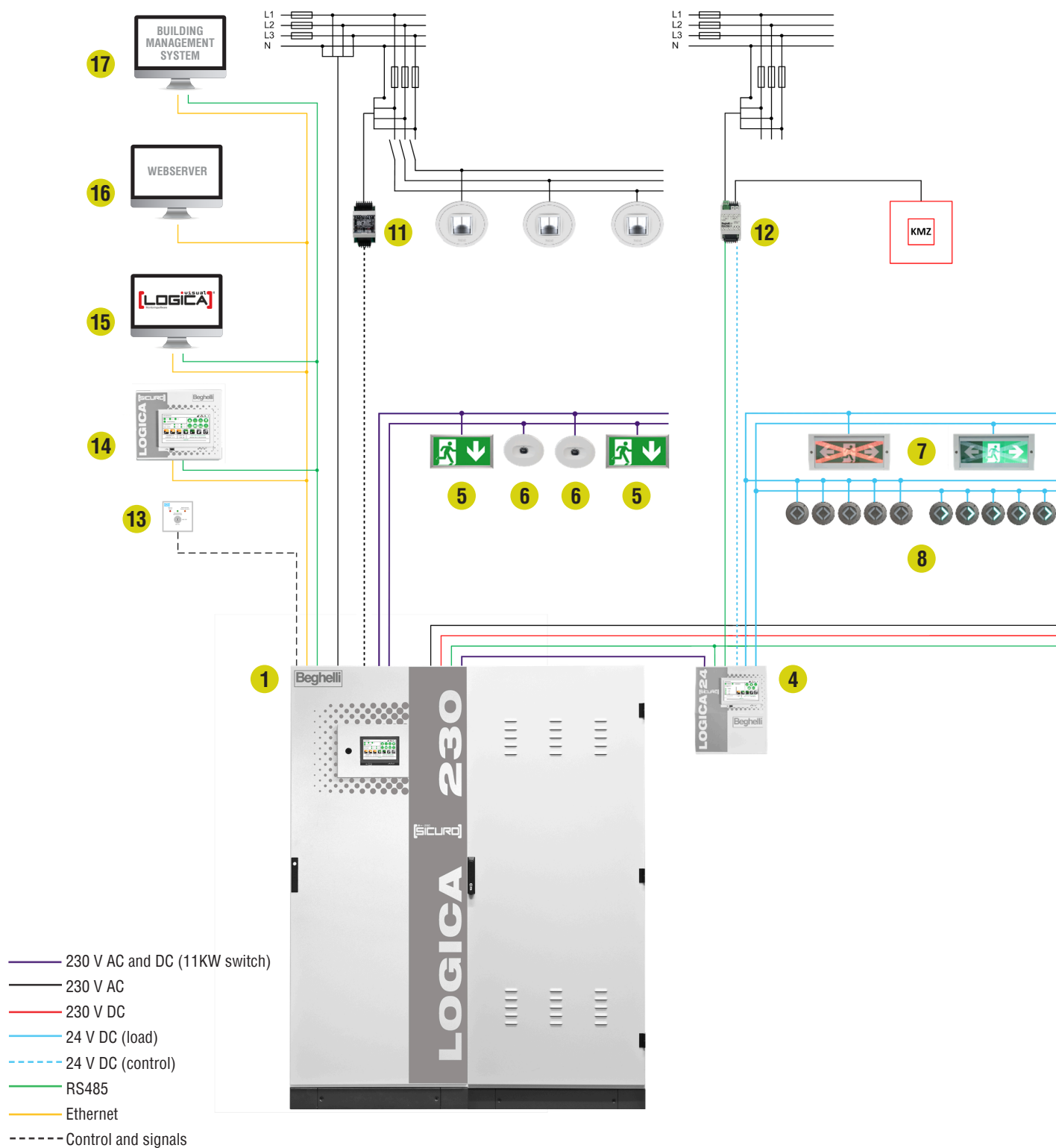
SUB STATION

- Total power in mains operation per sub station
- Total power in battery operation per sub station
- Voltage supply with separate mains supply cable and battery supply cable or via combined mains supply cable and battery supply cable (11KW switch)
- Number of internal luminaire circuit modules in the sub station:
 - AK 1 x 20 EÜ
 - AK 2 x 20 EÜ
 - AK 4 x 20 EÜ
 - AK 1 x 20 SÜ
 - AK 2 x 20 SÜ
 - AK 4 x 20 SÜ
 - Power per luminaire circuit
- Number of external luminaire circuit modules in the sub station:
 - eAK 2 x 20 EÜ
 - eAK 4 x 20 EÜ
 - eAK 2 x 20 SÜ
 - eAK 4 x 20 SÜ
- Number of LSSA modules in the sub station:
 - LSSA 3+5
 - LSSA 8

OPTIONS

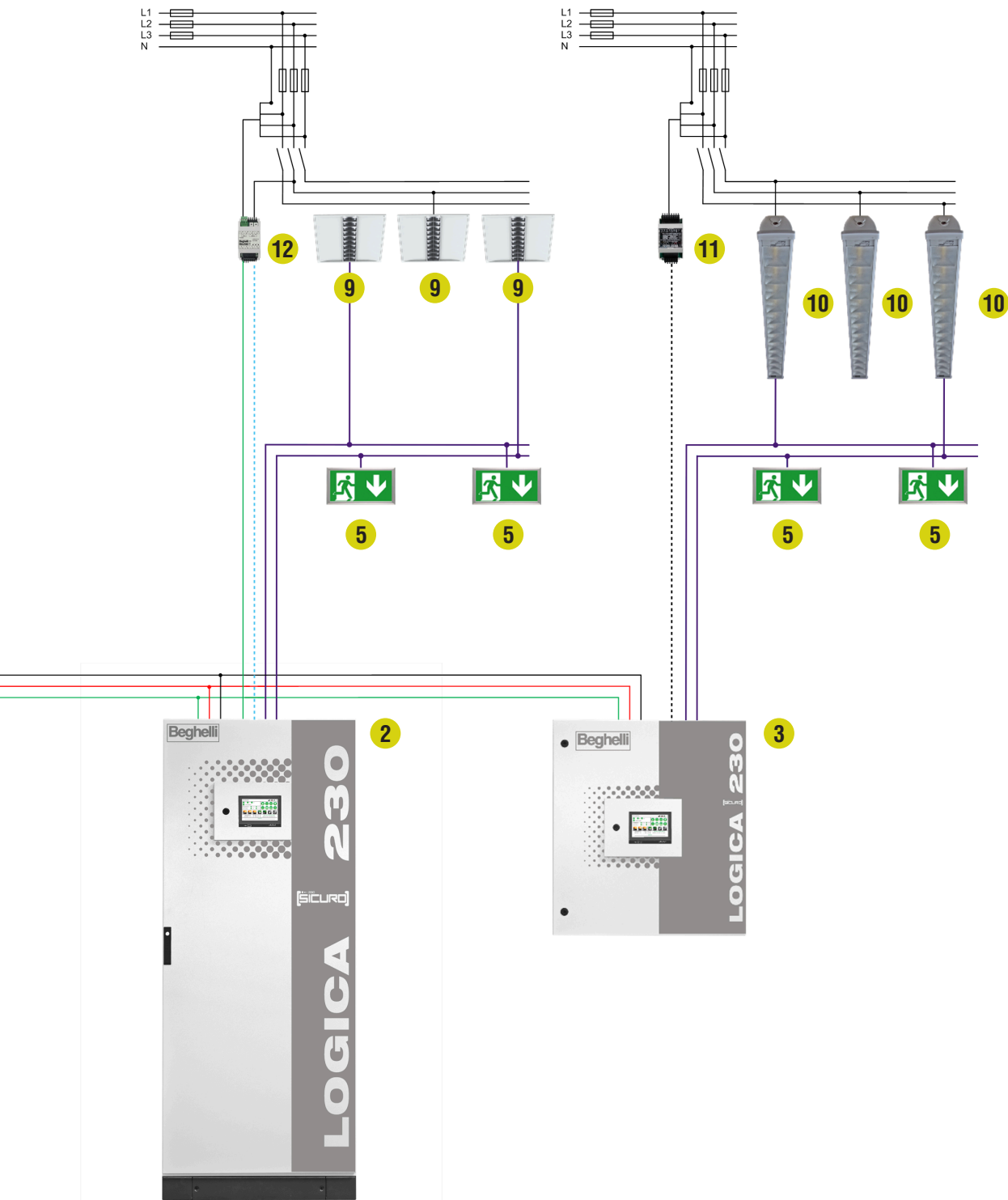
- Battery management Life Plus
- Mains monitoring modules DS1 UV or DS3 UV
- LSSA-modules LSSA 3+5 or LSSA 8
- S230-modules or S230 DALI-modules
- S230-inverter-modules
- DRM-modules
- Remote panel
- Signalling and switching module MSM
- Monitoring software Logica Visual

Note: Sicuro230 can also be supplied without a charging device and battery, by using a mains replacement system or a dual mains.



- 1 Central station S230Z-S
- 2 Sub station S230Z-U/S
- 3 Sub station S230Z-U/W
- 4 Sub station S24Z-U
- 5 S230 exit sign luminaire
- 6 S230 safety luminaire

- 7 S24 dynamic exit sign luminaire
- 8 S24 dynamic luminous marker
- 9 Luminaire with S230-module
- 10 Luminaire with S230-inverter-module
- 11 Mains monitoring module (option)¹
- 12 Combined mains monitoring / light switch query module (option)²



- 13** Signalling and switching module (option)³
- 14** RS485 or ethernet for Remote panel (option)^{1 4}
- 15** RS485 or Ethernet for PC with software Logica Visual^{1 4}
- 16** Ethernet bus for web server⁴
- 17** RS485 or ethernet for modbus RTU / TCP^{1 4}

¹ Cable: min. 2 x 2 x 0,8 mm

² Cable: min. 2 x 2 x 0,8 mm + 1 x 2 x 1,5 mm

³ Cable: min. 6 x 2 x 0,8 mm

⁴ Cable: min. CAT-5



DECENTRAL SUPPLY SICURO24

The decentral supply is based on **compact stations**.

COMPACT STATIONS

Compact stations with battery, charge, switchover, control and monitoring as well as distributor with internal luminaire circuits. Modular conception of the central station with exchangeable components.



| TYPE | | S24G |
|--------------------|-----|---------------------------------------------------------------------------------------------------------|
| DESCRIPTION | | Version with combined electronic and battery cabinet as wall cabinet |
| BATTERY TYPE | | sealed Pb battery |
| BATTERY CAPACITY | | 12 Ah to 56 Ah |
| BATTERY VOLTAGE | | 24 V |
| BATTERY CURRENT | 1 h | 6.5 A to 15.8 A |
| | 2 h | 3.7 A to 15.8 A |
| | 3 h | 2.8 A to 13.9 A |
| | 8 h | 1.1 A to 6.2 A |
| BATTERY POWER | 1 h | 156 W to 384 W |
| | 2 h | 88.8 W to 384 W |
| | 3 h | 67.2 W to to 333.6 W |
| | 8 h | 26.4 W to 148 W |
| CHARGE | | 1 module 27.2 V / max. 6 A |
| LUMINAIRE CIRCUITS | | max. 1 / 2 modules: ● 4 x 24 V / 3 A mains operation: 24 V DC emergency operation: 24 V DC |



S24G/E30

Version with combined electronic and battery cabinet as wall cabinet **with** function integrity

sealed Pb battery

56 Ah

24 V

10.8 A

10.8 A

10.8 A

6.2 A

260 W

260 W

260 W

148 W

1 module 27.2 V / max. 6 A

max. 1 / 2 modules:

- 4 x 24 V / 3 A

mains operation: 24 V DC

emergency operation: 24 V DC



S24G EXTREME

Version with combined electronic and battery cabinet as wall cabinet

sealed Li-Ion-Titanate-battery

20 Ah / 40 Ah

24 V

12 A to 15.8 A

8 A to 15.8 A

4.5 A to 9 A

1.45 A to 2.9 A

288 W to 384 W

192 W to 384 W

108 to 216 W

35 W to 70 W

max. 1 module 27 V / max. 6 A

max. 1 / 2 modules:

- 4 x 24 V / 3 A

mains operation: 24 V DC

emergency operation: 24 V DC



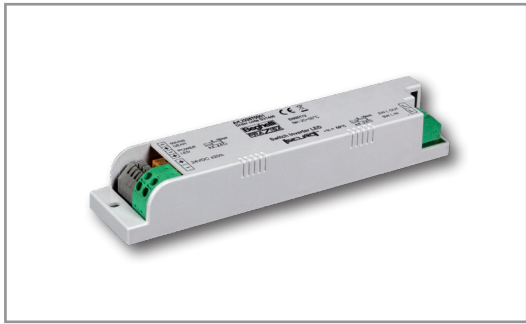
LUMINAIRE CIRCUIT MODULES FOR S24

Luminaire circuit modules for use in S24 stations or S24 sub stations. Module with 4 luminaire circuits for luminaire monitoring as well as luminaire or circuit control:

- Selective monitoring per luminaire (luminaire monitoring)
- Selective control per luminaire (luminaire monitoring)
- Programming of the operating mode per luminaire (luminaire monitoring)
- Button for addressing the luminaire circuit module



| TYPE | AK 4 X 32 EÜ |
|----------------|---------------------------------------|
| MONITORING | Luminaire monitoring |
| DESCRIPTION | 4 circuits for 4 x 20 (32) luminaires |
| CONNECTED LOAD | 4 x 72 W |
| INRUSH CURRENT | - |
| FUSE | 8 x 6.3 AT / 250 V |
| ORDER CODE | 17247 |



S24-INVERTER-MODUL

Monitoring and control module and integrated LED driver with automatic addressing for indoor and outdoor luminaires with LED driver and LED module.

- **Operating mode:** Maintained mode (switchable / not switchable), non-maintained mode (switchable / not switchable / programmable)
- **Mains operation:** Operation of the LED module via the LED driver of the luminaire without reduced power
 - LED-module supply: 2 V to 55 V / 0.5 A
 - Performance: 6 W or 12 W
- **Control:** LSSA control input for switching the luminaire in mains operation (on / off) or switching on the luminaire in emergency mode (mains monitoring)
 - Control signal: 0 V or 230 V

Communication to the S24 station or sub station via powerline bus.

| Order code | Description |
|------------|------------------------------------------------|
| 17220 | S24-inverter-module for luminaire installation |
| 17210 | S24-inverter-module for luminaire attachment |

CALCULATION OF LIGHT FLUX:

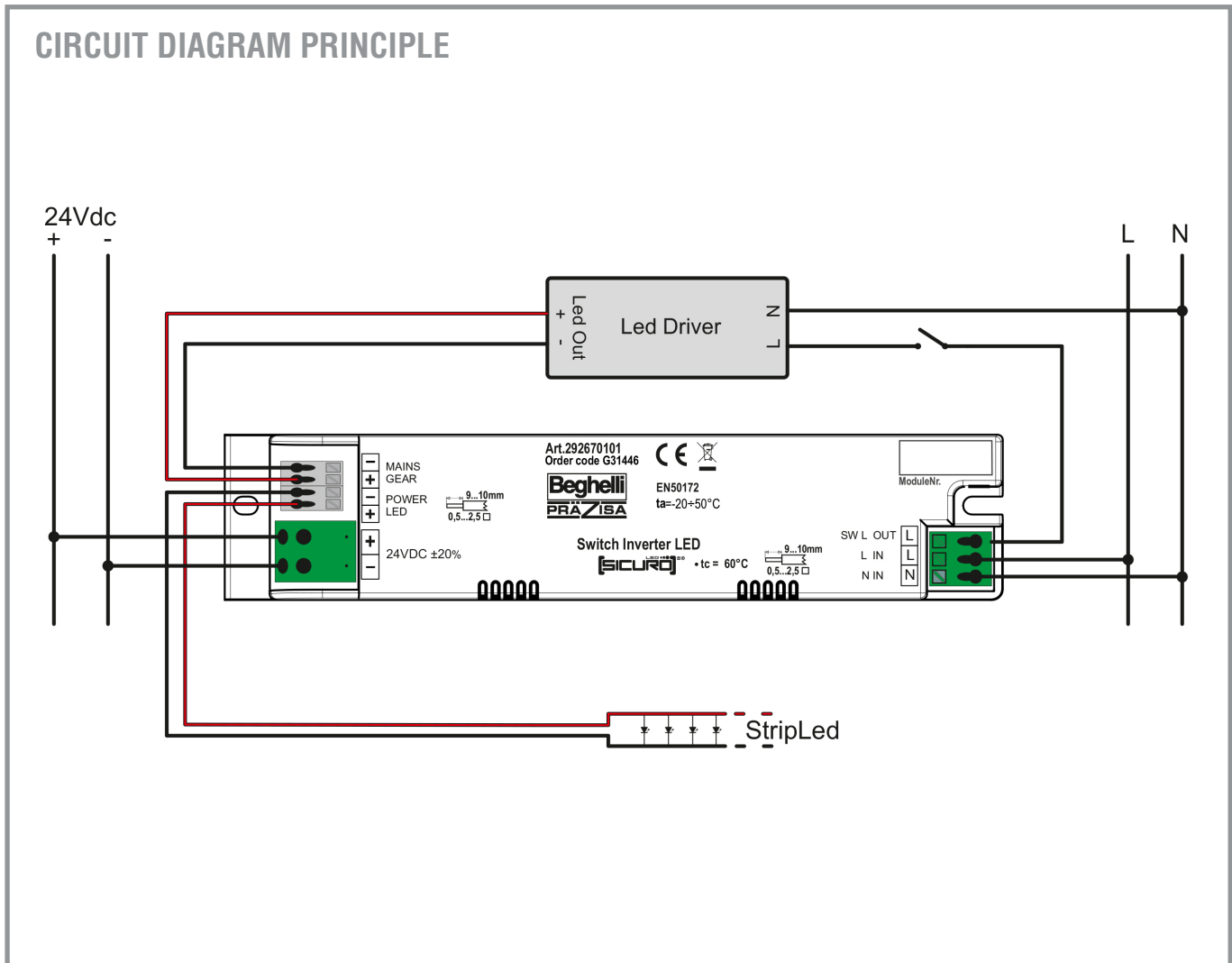
Light flux in mains operation = 100 %

Light flux in battery operation =

$$\text{Light flux in mains operation} \times \frac{6 \text{ W or } 12 \text{ W}}{\text{LED-module power}}$$

| | |
|--------------------------------|-----------------------------------------------|
| Battery voltage: | 24 V ± 20 % |
| Mounting: | Luminaire installation / luminaire attachment |
| Housing: | Polycarbonate |
| Dimensions (H x W x D): | 30 x 239 x 46 mm / 55 x 300 x 139 mm |
| Type of protection: | IP20 / IP65 |
| Protection class: | II |

CIRCUIT DIAGRAM PRINCIPLE






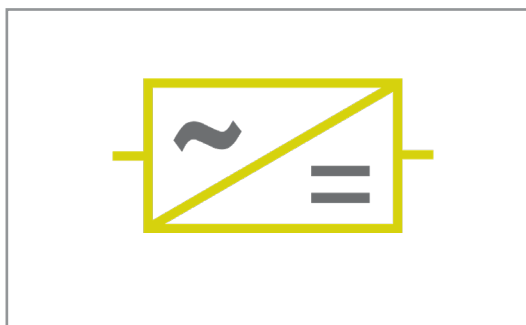


| TYPE | | S24G-12 | S24G-24 | S24G-28 | S24G-56 |
|--------------------------------------|--------------------------|----------------------------------------------------------------------|-----------------------------------------|--------------------------------|--------------------------------|
| VERSION | | Version with combined electronic and battery cabinet as wall cabinet | | | |
| BATTERY CAPACITY | | 12 Ah | 24 Ah | 28 Ah | 56 Ah |
| CHARGING MODULES | | 1 | 1 | 1 | 1 |
| LUMINAIRE CIRCUIT MODULES (INTERNAL) | | 1 | 1 | 1 or 2 | 1 or 2 |
| LUMINAIRE CIRCUIT MODULES (EXTERNAL) | | - | - | - | - |
| SUB STATIONS | | - | - | - | - |
| LSSA-INPUTS | (INTERNAL) | 4 | 4 | 4 | 4 |
| LSSA-MODULES | (INTERNAL) | - | - | - | - |
| LSSA-MODULES | (EXTERNAL) | max. 96 (optional) | max. 96 (optional) | max. 96 (optional) | max. 96 (optional) |
| MOUNTING | | Wall | Wall | Wall | Wall |
| ELECTRONIC CABINET | | sheet steel, white or grey ¹ | sheet steel, white or grey ¹ | sheet steel, grey ² | sheet steel, grey ² |
| BATTERY CABINET ¹ | | | | | |
| DIMENSIONS (H x W x D) MM | | 516 x 316 x 140 | 644 x 316 x 140 | 800 x 400 x 170 | 800 x 400 x 170 |
| TYPE OF PROTECTION | electronic | IP20 | IP20 | IP20 | IP20 |
| | battery | IP20 | IP20 | IP20 | IP20 |
| PROTECTION CLASS | | I | I | I | I |
| SUPPLY | mains | 230 V ~ 50 Hz | 230 V ~ 50 Hz | 230 V ~ 50 Hz | 230 V ~ 50 Hz |
| | battery | 24 V = | 24 V = | 24 V = | 24 V = |
| AMBIENT TEMPERATURE | electronic | -5 °C to +35 °C | -5 °C to +35 °C | -5 °C to +35 °C | -5 °C to +35 °C |
| | battery | +20 °C | +20 °C | +20 °C | +20 °C |
| CABLE ENTRY | | above / behind | above / behind | above | above |
| CABLE CLAMPS | mains | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| | battery | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| | luminaires | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| | control inputs / outputs | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |

¹ RAL 9003 (white) or RAL 7060 (grey)

² RAL 7035

|  | <h2 style="color: yellow;">EXTREME</h2> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> | |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| S24G-56/E30 | S24G-20 EXTREME | S24G-40 EXTREME |
| Version with combined electronic and battery cabinet as wall cabinet with function integrity | Version with combined electronic and battery cabinet as wall cabinet | |
| 56 Ah | 20 Ah | 40 Ah |
| 1 | 1 | 1 |
| 1 | 1 or 2 | 1 or 2 |
| - | - | - |
| - | - | - |
| 4 | 4 | 4 |
| - | - | - |
| max. 96 (optional) | max. 96 (optional) | max. 96 (optional) |
| Wall | Wall | Wall |
| fire protection panels, grey ² | sheet steel, grey ² | sheet steel, grey ² |
| 1.050 x 650 x 415 | 800 x 400 x 170 | 800 x 400 x 170 |
| IP54 | IP54 | IP54 |
| IP54 | IP54 | IP54 |
| I | I | I |
| 230 V ~ 50 Hz | 230 V ~ 50 Hz | 230 V ~ 50 Hz |
| 24 V = | 24 V = | 24 V = |
| -5 °C to +35 °C | -20 °C to +50 °C | -20 °C to +50 °C |
| +20 °C | -20 °C to +50 °C | -20 °C to +50 °C |
| above | above | above |
| 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| 2 x 2.5 mm ² | 2 x 2.5 mm ² | 2 x 2.5 mm ² |
| 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |

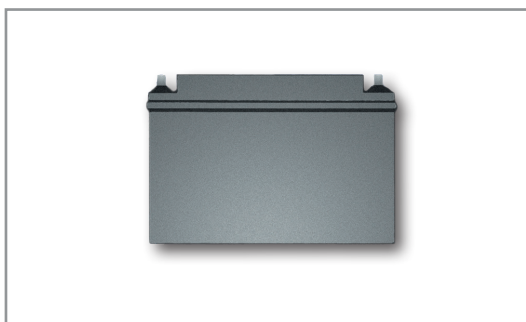


CHARGING MODULE S24

Charging module for charging of batteries with charging state-dependent switchover from charging to float charging. Automatic switch-off in the case of extreme temperature deviations to protect the batteries.

Charging voltage: LTO 27 V
PB 27.8 V

Charging current: 3 A or 6 A



BATTERY

Batteries as sealed lead battery (standard version) or lithium-ion-titanate batteries (extreme version).

Service life: > 10 years
Standard version with an ambient temperature of 20 °C
Extreme version with an ambient temperature of -20° C to + 50 °C

STANDARD VERSION

| CAPACITY (Ah) | VOLTAGE (V) | CURRENT (A) ¹ | | | | CONNECTED LOAD (W) ¹ | | | | BATTERY COMPARTEMENT |
|---------------|-------------|--------------------------|------------------------|------------------------|-----|---------------------------------|------------------------|--------------------------|------|----------------------|
| | | 1 h | 2 h | 3 h | 8 h | 1 h | 2 h | 3 h | 8 h | |
| 12 | 24 | 6.5 | 3.7 | 2.8 | 1.1 | 156 | 88.8 | 76.2 | 26.4 | X |
| 24 | 24 | 12 | 7.5 | 5.6 | 2.3 | 288 | 180 | 134.4 | 55.2 | X |
| 28 | 24 | 12 / 15.8 ² | 9.7 | 7 | 3.1 | 288 / 384 ² | 232.8 | 170 | 74.4 | X |
| 56 | 24 | 12 / 15.8 ² | 12 / 15.8 ² | 12 / 13.9 ² | 6.2 | 384 | 288 / 384 ² | 288 / 333.6 ² | 148 | X |

EXTREME VERSION

| CAPACITY (Ah) | VOLTAGE (V) | CURRENT (A) ¹ | | | | CONNECTED LOAD (W) ¹ | | | | BATTERY COMPARTEMENT |
|---------------|-------------|--------------------------|------------------------|-----|------|---------------------------------|------------------------|-----|-----|----------------------|
| | | 1 h | 2 h | 3 h | 8 h | 1 h | 2 h | 3 h | 8 h | |
| 20 | 24 | 12 / 15.8 ² | 8 | 4.5 | 1.45 | 288 / 384 ² | 192 | 108 | 35 | X |
| 40 | 24 | 12 / 15.8 ² | 12 / 15.8 ² | 9 | 2.9 | 288 / 384 ² | 288 / 384 ² | 216 | 70 | X |

¹ Data including aging reserve

² Version with 1 / 2 luminaire circuit modules



PROJECT PLANNING INFORMATION

For planning a decentral supply Sicuro24, the following information is required:

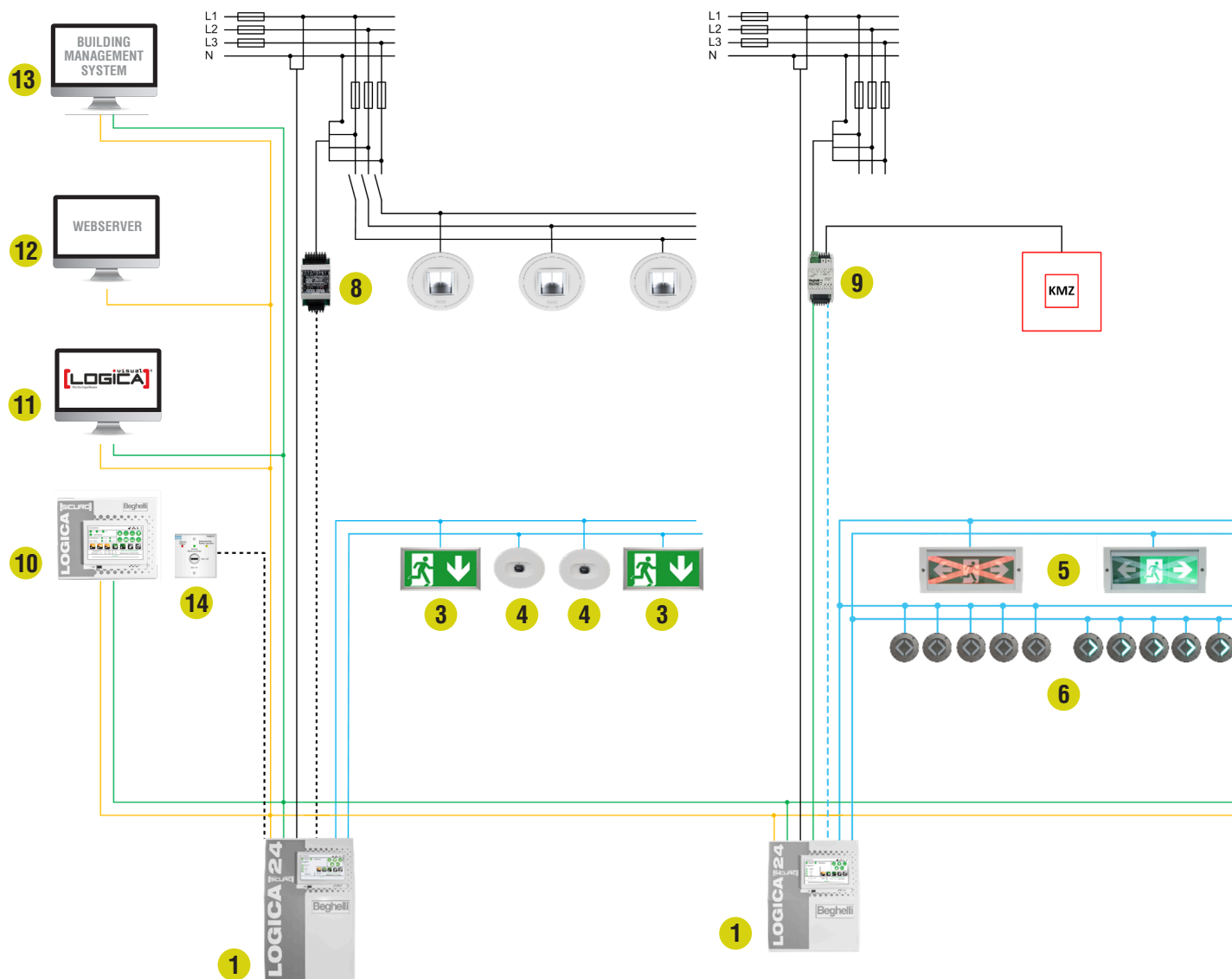
- Operating time (1 h / 2 h / 3 h / 8 h)
- Battery capacity (Ah)
 - Can be calculated from the operating time and total power in battery operation
- Total power in mains operation (W)
- Total power in battery operation (W)

STATION

- Number of internal luminaire circuit modules in the station:
 - AK 4 x 20 EÜ
 - Power per luminaire circuit

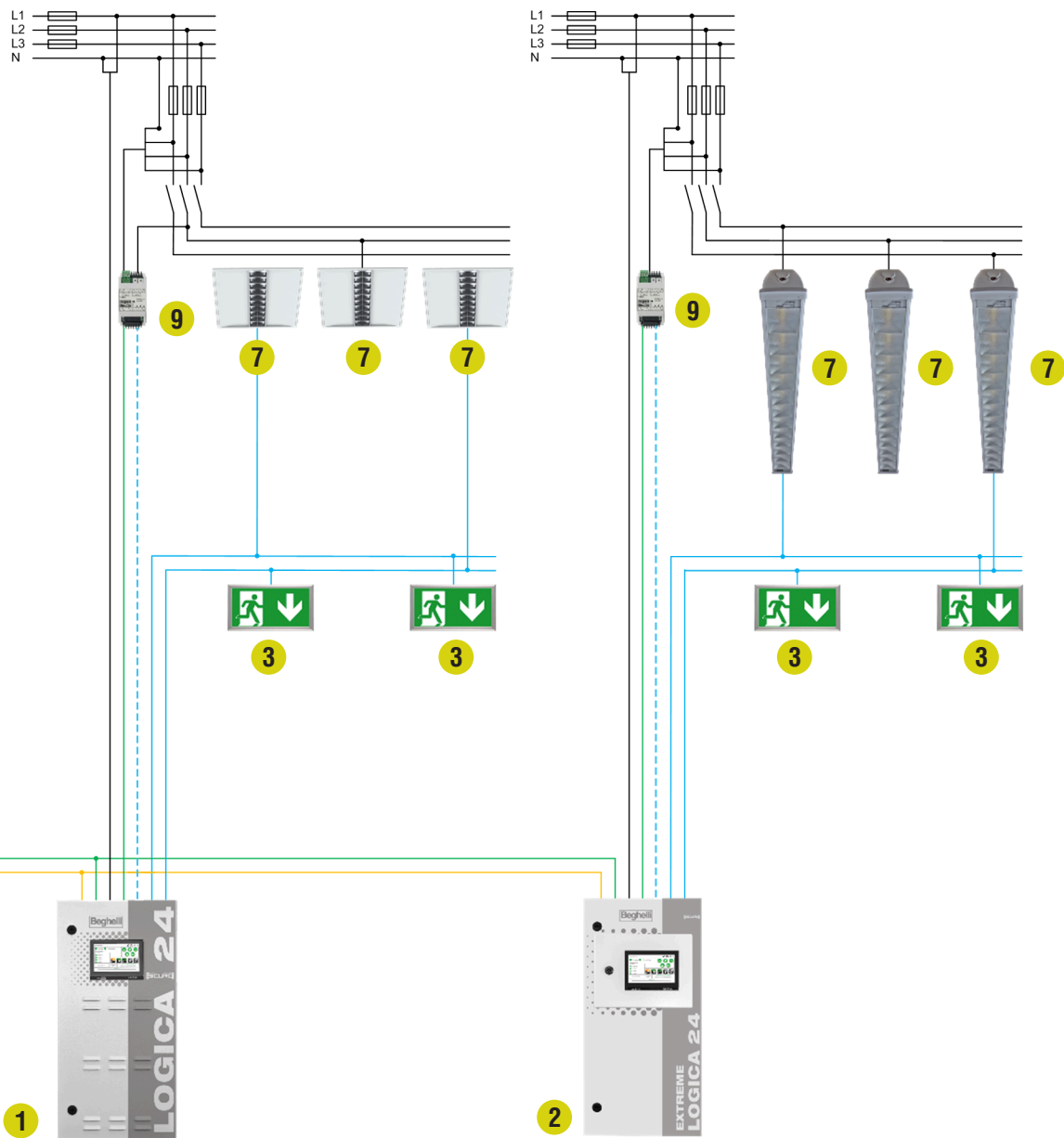
OPTIONS

- Mains monitoring modules DS1 UV or DS3 UV
- LSSA-modules LSSA 3+5 or LSSA 8
- S24-inverter-modules
- Remote panel
- Signalling and switching module MSM
- Monitoring software Logica Visual



- 230 V AC
- 24 V DC (load)
- - - 24 V DC (control)
- RS485 bus
- Ethernet
- - - Control and signals

- 1 S24G station
- 2 S24G extreme station
- 3 S24 exit sign luminaire
- 4 S24 safety luminaire
- 5 S24 dynamic exit sign luminaire
- 6 S24 dynamic luminous markers
- 7 Luminaire with S24-inverter-module
- 8 Mains monitoring module (option)¹
- 9 Combined mains monitoring / light switch query module (option)²



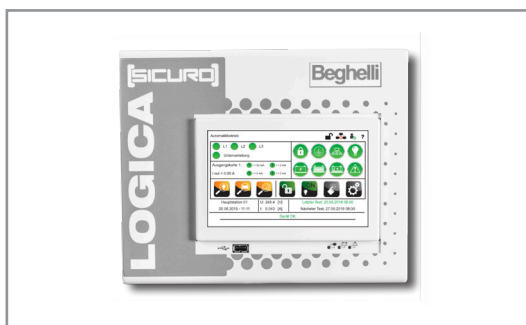
- 10 RS485 or ethernet for remote panel (option)^{1 4}
- 11 RS485 bus or ethernet for PC with software **Logica Visual**^{1 4}
- 12 Ethernet bus for web server⁴
- 13 RS485 or ethernet for modbus RTU / TCP^{1 4}
- 14 Signalling and switching module (option)³

¹ Cable: min. 2 x 2 x 0.8 mm

² Cable: min. 2 x 2 x 0.8 mm + 1 x 2 x 1.5 mm

³ Cable: min. 6 x 2 x 0.8 mm

⁴ Cable: min. CAT-5



| Order code | Description |
|------------|-----------------------------------------|
| 17240 | Remote panel Sicuro24-230 housing white |
| 17241 | Remote panel Sicuro24-230 housing grey |

REMOTE PANEL

Remote panel for remote control of 96 Sicuro systems.

FUNCTIONS

Testing

- Function test (start) per system or for all systems
- Duration test (start) per system or for all systems

Control

- Maintained mode (on / off) per system or for all systems
- Operational condition (on / off) per system or for all systems

Signalling

- Operating mode (mains / battery) per system
- Operational condition per system
- Faults
 - Collective fault
 - Battery
 - Charging
 - Luminaires
 - Communication fault
- Testing of the last 2 years per system

Switch input and signalling output

- 1 switch input, free programmable, for switching of
 - Operational condition (on / off)
 - Maintained mode (on / off)
 - Function test (start)
 - Duration test (start)
 - Non-maintained mode (off) of all systems
 - Deep discharge protection (reset) for one or all systems
 - **Switching signal:** Contact, potential-free
- 3 signalling outputs, free programmable, for signalling the status of
 - Charging
 - Battery
 - Circuit resp. luminaire
 - Deep discharge
 - Operational condition
 - Mains failure
 - Battery operation
 - Test operation for one or all systems
 - **Signalling signal:** contact, potential-free

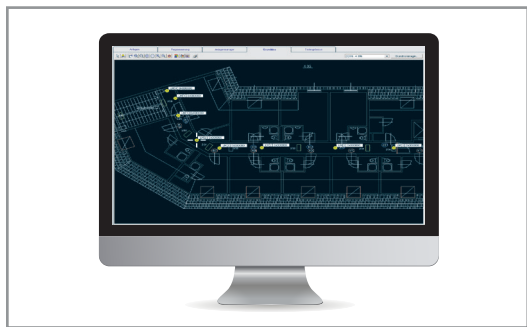
Communication bus

- RS485 bus for communication in decentral supplies
- Ethernet bus for communication in decentral supplies
- 3 signalling outputs, free programmable, for signalling the status of
 - Charging
 - Battery
 - Circuit resp. luminaire
 - Deep discharge
 - Operational condition
 - Mains failure
 - Battery operation
 - Test operation for one or all systems
 - **Signalling signal:** contact, potential-free

Operation

Operation via 7" colour touch screen with graphic and alphanumeric interface for input and output of all parameter and data, activatable password protection, multilingual and 3 status LED for displaying mains operation / battery operation / collective fault

| | |
|----------------------------|--------------------------------------------------|
| Mounting: | Surface wall mounting |
| Cable entry: | Above / behind |
| Housing: | Sheet steel, white (RAL 9003) or grey RAL (7016) |
| Type of protection: | IP20 / IP65 |
| Protection class: | II |



MONITORING AND CONTROL SOFTWARE LOGICA VISUAL

Software for central monitoring and control of complex safety lighting with self-contained supply, decentral or central power supply.

Version for Windows XP (32/64 Bit), Windows VISTA (32/64 Bit), Windows 7 (32/64 Bit), Windows 8 (32/64 Bit) and Windows 10 (32/64 Bit)

FUNCTIONS

Monitoring

- Automatic or manual execution of a function test
- Automatic or manual execution of a duration test

Control

- Manual switching (on / off) of maintained mode in mains operation per system (decentral or central supply)

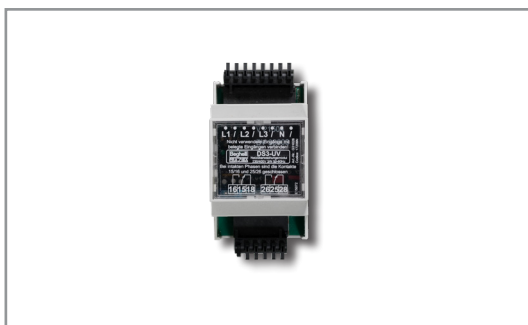
Signalling

- Current status in online mode in graphic and numerical format per luminaire (decentral or central supply)
 - Operational condition
 - Operating mode
 - Faults
 - Tests
- Faults in online mode per luminaire (decentral and central supply)
 - Lamp
 - Communication fault
- Tests of the last 2 years per system (decentral and central supply)

Programming

- Import of layout plans as DXF / DWG file
- Text and graphic assignment of all systems, circuits and luminaires resp. luminaires, supply devices and supply modules
- System parameters per system
- Test parameters per system
- Operating mode per circuit or luminaire (decentral or central supply)
- Switching per circuit or luminaire (decentral or central supply)
- Test parameters per system
 - Date
 - Time
 - Duration
 - Cycle
- Free assignment of circuits and luminaires to monitoring and control modules per system (decentral or central supply)
- 2 programmable time control scenes with 7 x 5 switch commands (maintained mode) per system (central supply)
- 3 programmable time control scenes with 7 x 5 > switch commands (maintained mode) per system (decentral supply)

| Order code | Description |
|------------|---------------|
| SWB16311 | Logica Visual |



MAINS MONITORING MODULE DS 1 UV/DS 3 UV

Module for monitoring the mains supply for general lighting in sub distributors. Activation of the control output during mains faults and mains failures with $U < 0.6 U_{\text{Nominal}}$ for 0.5s.

| | |
|--------------------------------|-----------------------------------------------|
| Mains input: | 1 ~ N 230 V / 50 Hz resp. 3 ~ N 400 V / 50 Hz |
| Control output: | 2 changeovers, potential-free |
| Housing: | Plastic |
| Dimensions (H x W x D): | 90 x 52 x 58 mm |
| Type of protection: | IP20 |
| Protection class: | II |
| Mounting: | Distributor installation (DIN rail) |

| Order code | Description |
|------------|----------------|
| 17226 | DS1 UV 1-phase |
| 17206N | DS3 UV 3-phase |



LIGHT SWITCH QUERY MODULE LSSA 3+5

Module with 3 control inputs for monitoring the mains for general lighting or to query the light switches for general lighting. Function and logics of control inputs as well as assignment of luminaire circuits or luminaires, which can be freely programmed.

| | |
|----------------------------------------------|-----------------------------------------------------------------------------------|
| Control input for mains monitoring: | 3 or 0 |
| Control signal: | 1 ~ N 230 V / 50 Hz, can be inverted ($U > 0,6 U_{\text{Nominal}}$ for 0,5 s) |
| Control input for light switch query: | 5 or 8 |
| Control signal: | 1 ~ N 230 V / 50 Hz, can be inverted |
| Communication bus: | RS485 |
| Housing: | Plastic |
| Dimensions (H x W x D): | 110 x 53 x 63 mm |
| Type of protection: | IP20 |
| Protection class: | II |
| Mounting: | Installation in S230 central station or sub station or distributor |

| Order code | Description |
|------------|-------------|
| 17230 | LSSA 3+5 |



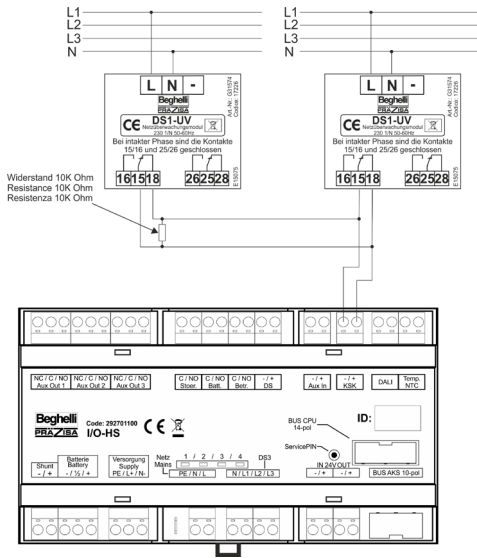
LIGHT SWITCH QUERY MODULE LSSA 8

Module with 8 control inputs to query the light switches for general lighting. Activation of the control inputs for the light switch query with switch contacts (potential free), can be inverted. Logics of the control inputs as well as assignment to luminaire circuits or luminaires, can be freely programmed.

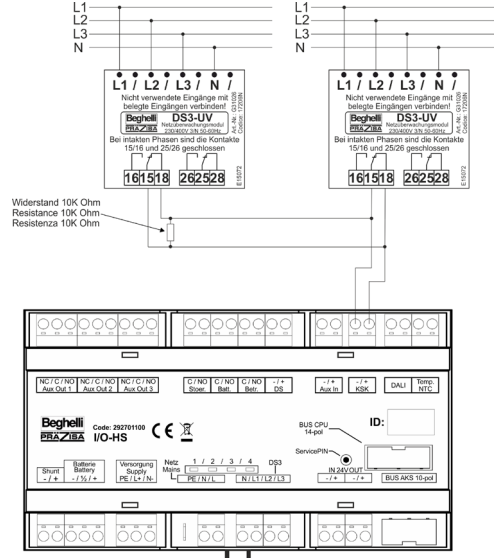
| | |
|-----------------------------------------------|--------------------------------------------------------------------|
| Control inputs for light switch query: | 8 |
| Control signal: | Switch contact (potential free), can be inverted |
| Communication bus: | RS485 |
| Housing: | Plastic |
| Dimensions (H x W x D): | 110 x 53 x 63 mm |
| Type of protection: | IP20 |
| Protection class: | II |
| Mounting: | Installation in S230 central station or sub station or distributor |

| Order code | Description |
|------------|-------------|
| 17231 | LSSA 8 |

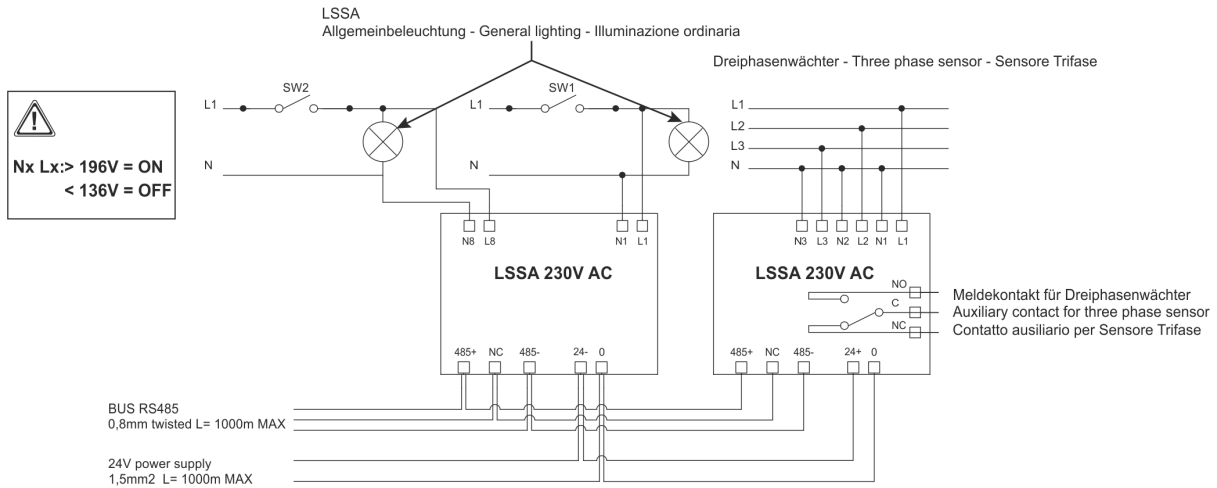
CIRCUIT DIAGRAM PRINCIPLE DS 1 UV



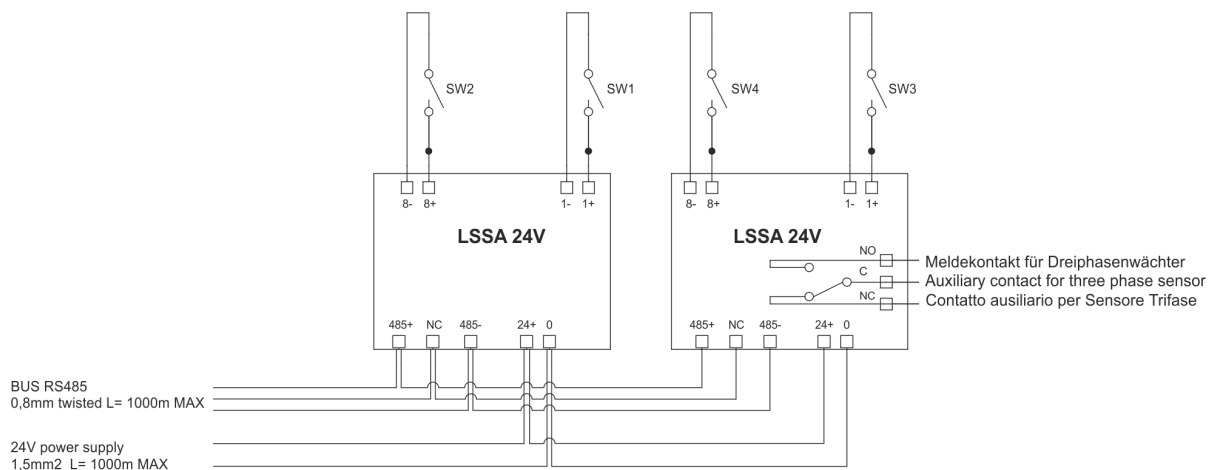
CIRCUIT DIAGRAM PRINCIPLE DS 3 UV



CIRCUIT DIAGRAM PRINCIPLE



CIRCUIT DIAGRAM PRINCIPLE





| Order code | Description |
|------------|-------------|
| 17207 | MSM-A |

SIGNALLING AND SWITCHING MODULE MSM-A

Signalling (optical) of:

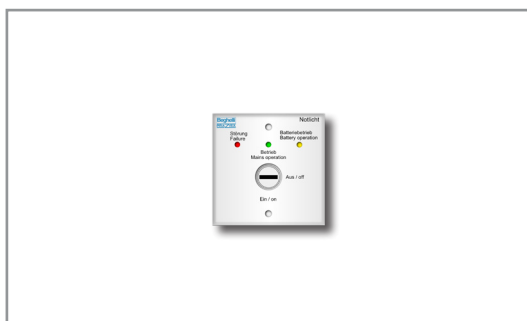
- Operational condition
- Battery operation
- Collective fault

Switching (keyswitch) of:

- Maintained mode

Housing:
Dimensions (H x W x D):
Type of protection:
Protection class:
Mounting:

Plastic
 160 x 80 x 60 mm
 IP65
 III
 Surface wall mounting



| Order code | Description |
|------------|-------------|
| 17208 | MSM-E |

SIGNALLING AND SWITCHING MODULE MSM-E

Signalling (optical) of:

- Operational condition
- Battery operation
- Collective fault

Switching (keyswitch) of:

- Maintained mode

Housing:
Dimensions (H x W x D):
Type of protection:
Protection class:
Mounting:

Plastic / Metal
 86 x 86 x 53 mm
 IP20
 III
 Recessed wall mounting



| Order code | Description |
|------------|---------------------|
| 16319 | RS485-USB-interface |

RS485 / USB-INTERFACE

Module for communication between Sicuro systems and a computer with software Logica Visual via USB.

Housing:
Dimensions (H x W x D):
Type of protection:
Protection class:
Mounting:

Metal
 151 x 75 x 26 mm
 IP20
 III
 DIN rail

| | |
|----------|---------|
| 16319 | Page 60 |
| 17206N | Page 58 |
| 17207 | Page 60 |
| 17208 | Page 60 |
| 17210 | Page 49 |
| 17220 | Page 49 |
| 17226 | Page 58 |
| 17230 | Page 58 |
| 17231 | Page 58 |
| 17232 | Page 34 |
| 17233 | Page 34 |
| 17234 | Page 34 |
| 17236 | Page 38 |
| 17240 | Page 56 |
| 17241 | Page 56 |
| 17242 | Page 34 |
| 17243 | Page 34 |
| 17244 | Page 34 |
| 17247 | Page 48 |
| 17381 | Page 36 |
| 17382 | Page 36 |
| 17383 | Page 36 |
| 17384 | Page 39 |
| 30011 | Page 35 |
| 30012 | Page 35 |
| 30013 | Page 35 |
| 30014 | Page 35 |
| RA07 | Page 38 |
| SWB16311 | Page 57 |

Disclaimer

The technical content corresponds to the status at the time of printing the catalogue. Subject to change. Please request information from your internal sales team or field sales. We cannot assume any liability for typesetting errors and colour deviations.

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SAFETY **LIGHTING**

**LUMINAIRES WITH
SELF-CONTAINED
SUPPLY**

**LUMINAIRES FOR
DECENTRAL
SUPPLY**

AND

**CENTRAL
SUPPLY**

LIGHT IS SAFETY

True to this motto, **Beghelli PRÄZISA** has been a competent partner for specialist planners, expert companies, industries, trade and commerce worldwide for more than three decades. We develop, manufacture and distribute **safety lighting** as well as **interior and exterior lighting**.

Important criteria for the design of our products are the **preservation of resources** and the **protection of the environment**. This is done through products with **high efficiency** and simple operation. This reduces the

costs of assembly, installation and operation – the latter through lower **energy consumption** and **longer service life**. Our standards for general and emergency lighting are very high.

We are constantly developing new functions and designs of innovative lighting concepts. This way we do not just provide safety through lighting, but also stage buildings and public spaces.



RELIABLE OF LIGHTING

For control and monitoring, we have been relying on wireless communication pursuant to the Zigbee® standard for more than 15 years. This allows optimal management of interior and exterior lighting. The standard is particularly advantageous in the construction and renovation of new lighting and the renovation of existing lighting.



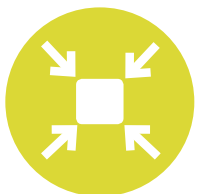
SUSTAINABLE

Our SmartLighting and Sicuro safety lighting concepts are extremely efficient. Luminaire power is reduced by up to 75%, the luminaire quantity by up to 40%. Installation and maintenance are easy. This saves energy and protects the environment.



INNOVATIVE

The Titanate Emergency Lighting series is powered by lithium-titanate batteries. The service life is 10 years and is therefore cheaper and safer than the central battery supply. The system can even be operated without any problems in extreme temperatures from -20 °C to +50 °C.



COMPACT

Tula combines escape sign and safety luminaire and replaces the separate escape signs and safety luminaires at exits, emergency exits and escape routes. Tula is available for wall and ceiling mounting as well as for pendant mounting and can be flexibly integrated into any architecture.



VARIABLE

MultiLens is a flat and lightweight downlight for wall and ceiling mounting. The light distribution is variable through the multi-focus lens module. Light colours can be individually controlled with the multicolour LED driver.


Variants with self-contained supply

Page 8 – 9

Titanium Emergency Lighting
Innovative self-contained supply

Page 10 – 11

Decentral and central testing devices

Page 12 – 13

Variants for decentral and central supply

Page 14 – 15

Sicuro Emergency Lighting
Luminaire for innovative supply

Page 16 – 17

**TESTING
DEVICES**
Logica FM

Page 18 – 21

Logica S and Logica Z

Page 22 – 26

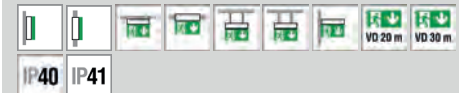
Logica Visual

Page 27

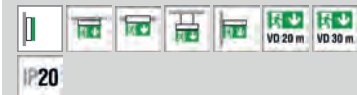
Mounting options / Viewing distance / Luminaire distance / Degree of protection / Impact resistance / Protection class / Special properties

**EXIT SIGN
LUMINAIRES**
Pluraluce

Page 28 – 29


Plexi LED

Page 30 – 31


Dispos Evo

Page 32 – 33


Multi-D

Page 34 – 35


Alu-K

Page 36 – 37


Kubus

Page 38 – 39


Kubus65











Page 40 – 41


Acciaio













Page 42 – 43

























EXIT SIGN LUMINAIRES

| | | | Mounting options / Viewing distance / Luminaire distance / Degree of protection / Impact resistance / Protection class / Special properties |
|------------------|------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Formula65 |  | Page 44 – 45 |  IP65 IK07 |
| Tula |  | Page 46 – 47 |  IP20 |
| Maxima |  | Page 48 – 49 |  IP54 |
| Aestetica |  | Page 50 – 51 |  IP40 |
| Quader |  | Page 52 – 53 |  IP42 |

SAFETY LUMINAIRES

| | | | |
|-----------------------------|-------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------|
| Pluraluce surface |  | Page 54 – 55 |  IP41 IP42 IK07 |
| Pluraluce recessed |  | Page 56 – 57 |  IP41 IP42 IK07 |
| Pluraluce65 surface |  | Page 58 – 59 |  IP65 IK09 V2A |
| Pluraluce65 recessed |  | Page 60 – 61 |  IP65 IK09 V2A |
| Alu-K |  | Page 62 – 63 |  IP40 |
| Kubus |  | Page 64 – 65 |  IP40 |

**SAFETY
LUMINAIRES**

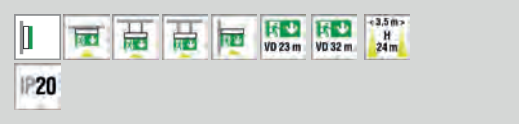
| | | Mounting options / Viewing distance / Luminaire distance / Degree of protection / Impact resistance / Protection class / Special properties |
|---------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Kubus65  | Page 66 – 67 |  IP65 IK09 V2A |
| Acciaio  | Page 68 – 69 |  IP65 IK09 Ex UV Oil |
| Acciaio High  | Page 70 – 71 |  IP66 IK09 UV Oil |
| Formula65  | Page 72 – 73 |  IP65 IK07 |
| Logica  | Page 74 – 75 |  IP65 IK08 |
| Aestetica  | Page 76 – 77 |  IP40 |
| Lumax  | Page 78 – 79 |  IP41 |
| Lumax65  | Page 80 – 81 |  IP65 IK10 |
| S-In  | Page 82 – 83 |  IP65 IK09 |
| Triangle  | Page 84 – 85 |  IP65 IP66 IK07 V2A |
| F30 / F50 / F70  | Page 86 – 87 |  IP65 IP66 IK09 UV Oil |

Mounting options / Viewing distance / Luminaire distance / Degree of protection / Impact resistance / Protection class / Special properties

**COMBINED
EXIT SIGN AND
SAFETY
LUMINAIRES**



Page 88 – 89



Page 90 – 91



**SAFETY SIGN
LUMINAIRES**



Page 92 – 93



**MOBILE SAEFETY
LUMINAIRES**



Page 94 – 95



**SUPPLY MODULES
AND
SUPPLY DEVICES**



Page 96 – 97



Page 98 – 99



Page 100 – 101



Order codes

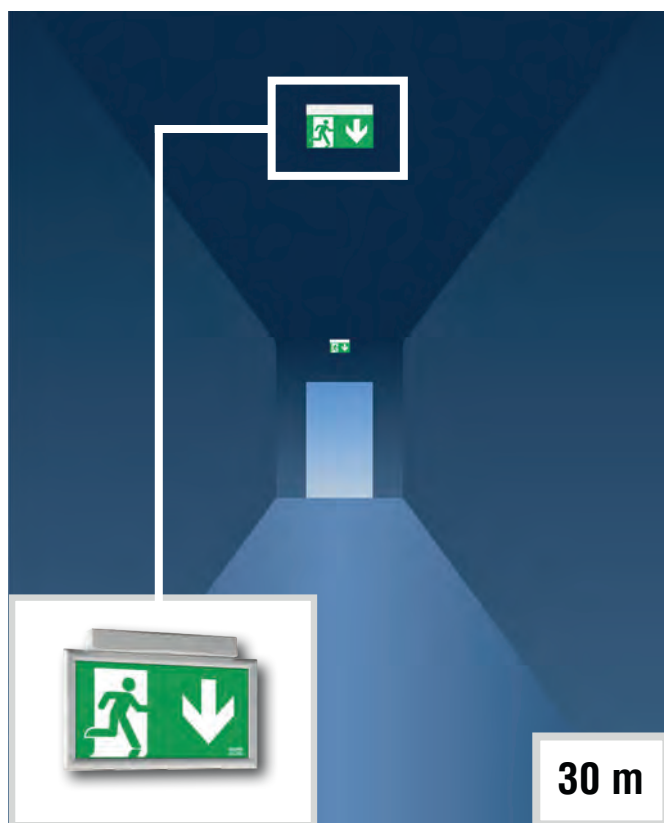
Page 102 – 107

Index of symbols and icons

Page 108

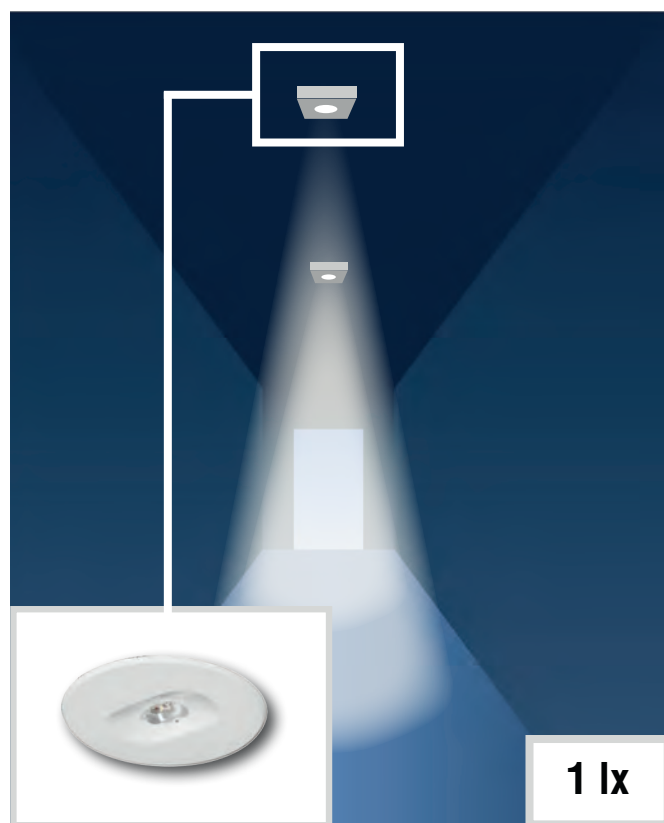
EXIT SIGN LUMINAIRES

for marking of escape routes and emergency exits



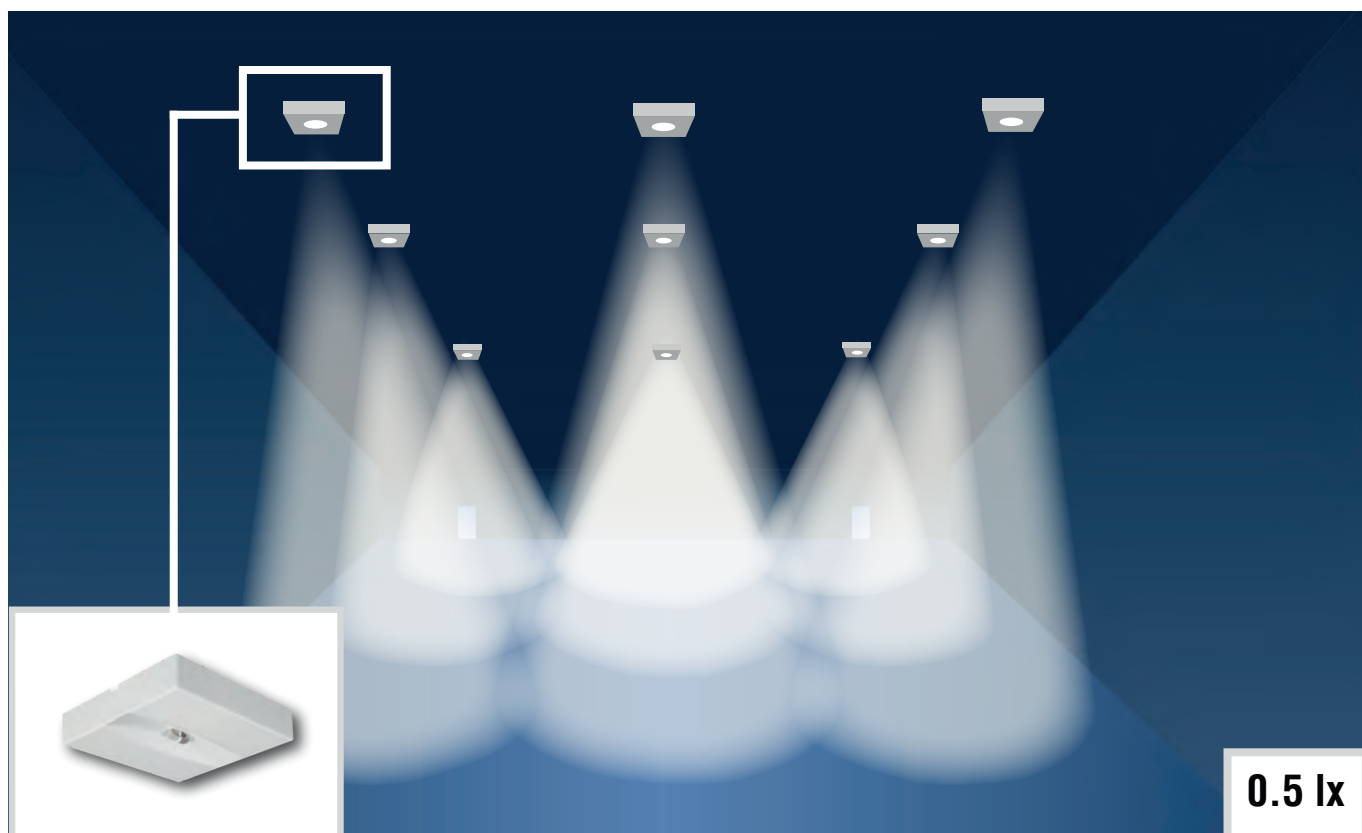
LUMINAIRES

for illumination of escape routes



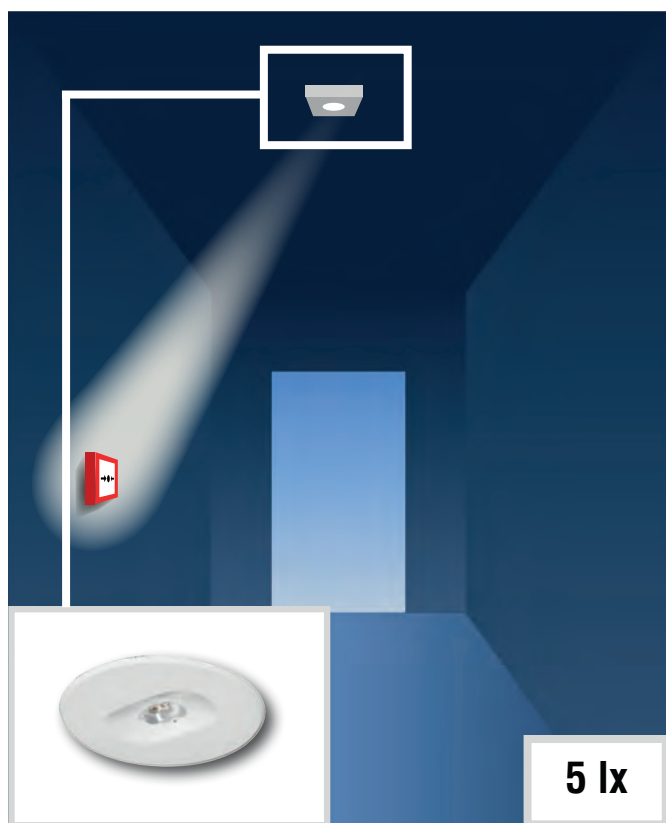
LUMINAIRES

for areas



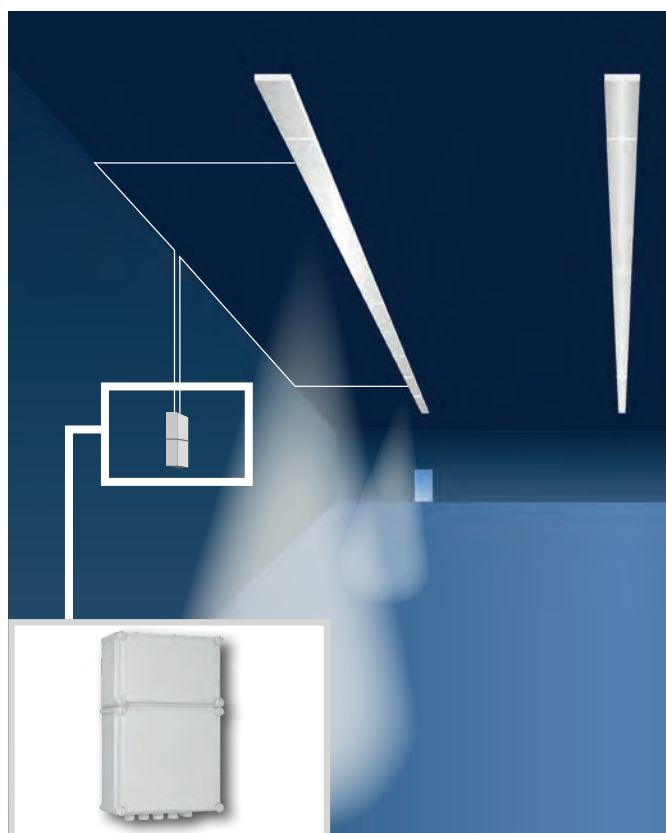
LUMINAIRES

for safety devices



SUPPLY DEVICES

for operation of interior and exterior luminaires used as safety luminaires



Integration of general lighting in emergency lighting

No reduction of luminous flux

Suitable for **commercial** and **industrial** halls or gym

Either for **large distance** between supply device and luminaire



**INNOVATIVE SELF-CONTAINED SUPPLY
LITHIUM-ION-TITANIUM-BATTERIES**

**EXTREME BATTERY LIFE
10 YEARS**

**EXTREME LUMINAIRE TEMPERATURE RANGE
-20 °C TO +50 °C**



EXIT SIGN LUMINAIRES
SAFETY LUMINAIRES
EMERGENCY LIGHT SUPPLY MODULES
WITH
LITHIUM-ION-TITANIUM-BATTERIES

FUNCTIONS

Programmable operating time



1 h / 3 h / 8 h

Programmable operating mode



maintained mode / non-maintained mode

Integrated testing device



self-test AutoTest



remote test Logica (radio bus / cable bus)



ADVANTAGES COMPARED WITH CENTRAL SUPPLY

No battery room

No additional distributors (also no functional integrity)

No additional cables (also no functional integrity)

No divided luminaire circuits

No battery maintenance

Greater safety through decentralisation

[AUTOTEST] Decentral testing device as stand-alone-system **integrated** in luminaire or supply device.

IDEAL FOR SMALLER BUILDINGS AND WORK SITES

FUNCTIONS

AUTO ✓ Automatic tests

✓
✓
✓ Decentral messages

~~📖~~ No integrated test book

~~👉 ⏪ 📅~~ No programmable test parameters





Central testing device as master-slave-system **integrated** in a sub distribution **with interface** for communication over **radio bus** (ZigBee®-standard) or **cable bus** (DALI-standard).
Optional interfaces for control and monitoring with **building management system**.

IDEAL FOR LARGER BUILDINGS AND WORK SITES

FUNCTIONS


AUTO ✓ Automatic tests

 Central messages


 Integrated test book

 Programmable test parameters

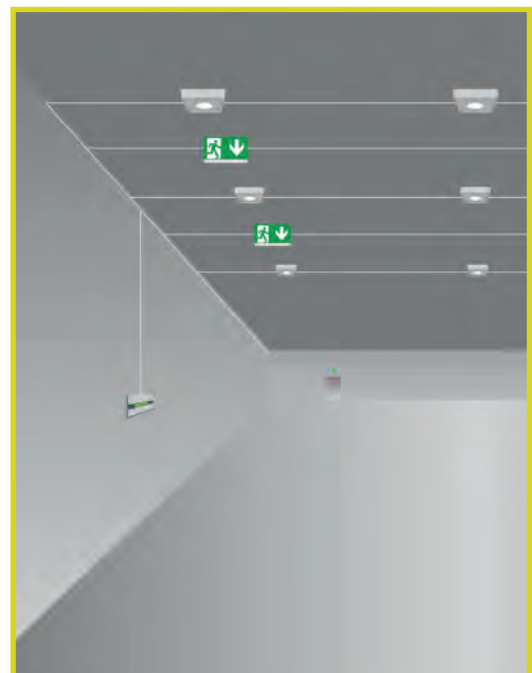
FURTHER FUNCTIONS

 Programmable operating mode

 Programmable operating time

 Central switching

 Central dimming



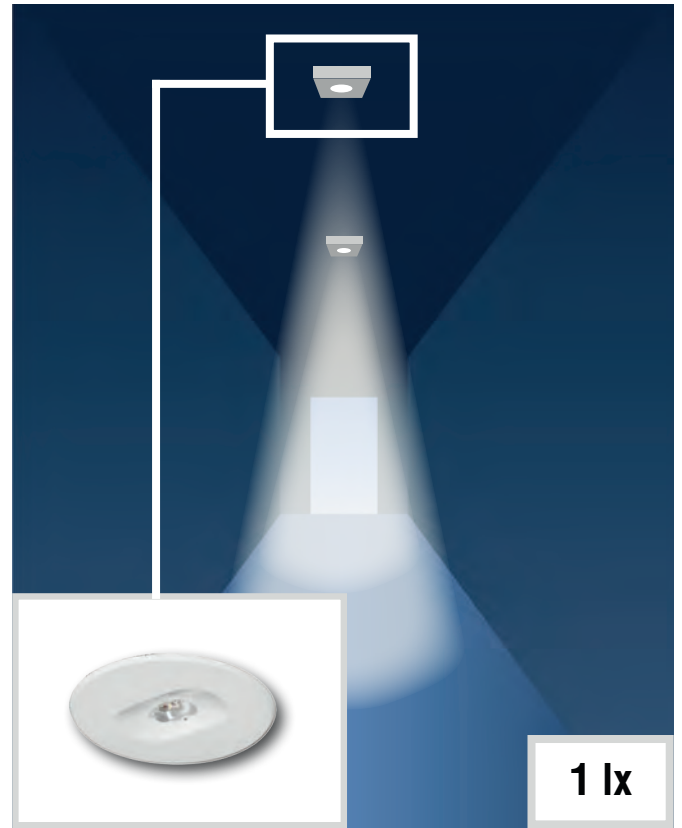
EXIT SIGN LUMINAIRES

for marking of escape routes and emergency exits



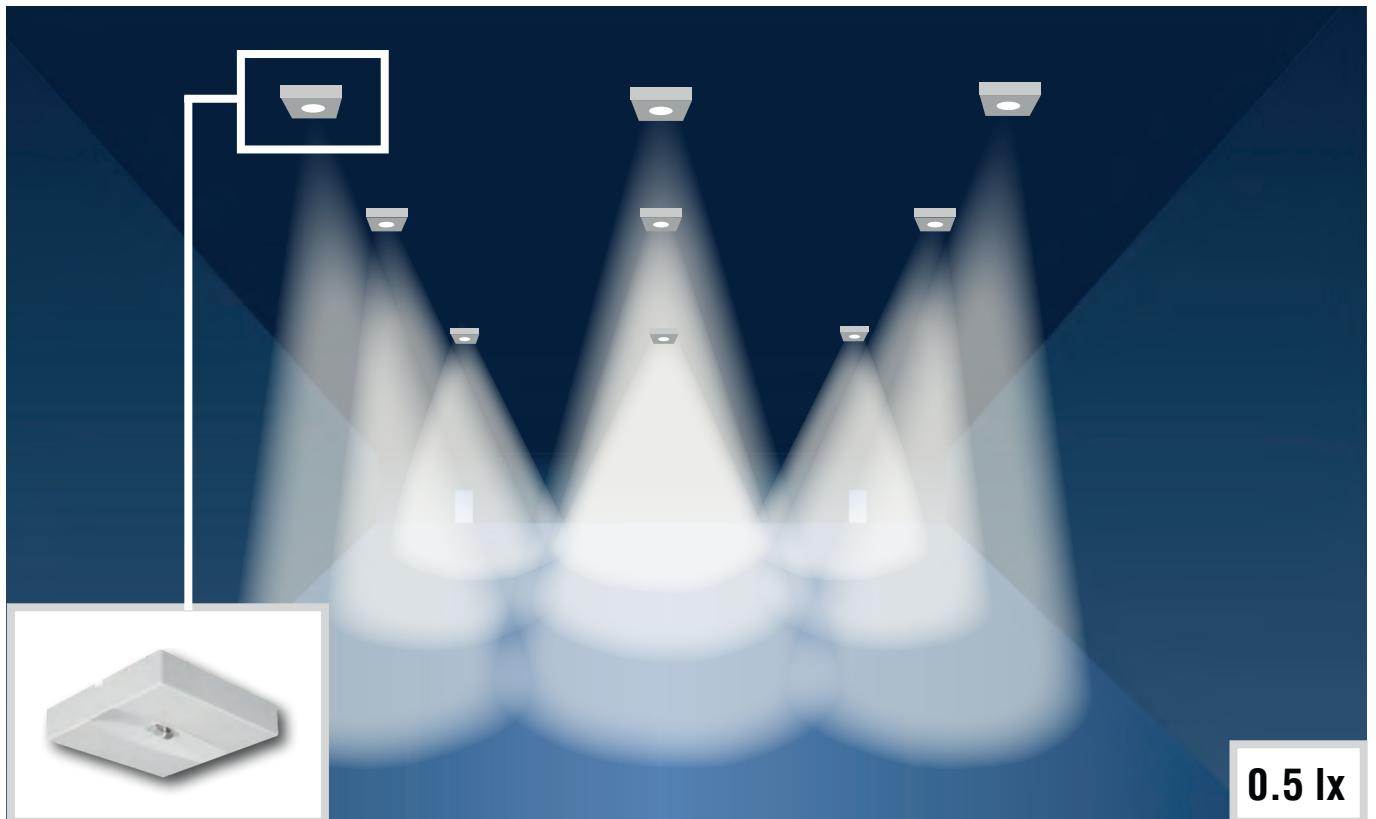
LUMINAIRES

for illumination of escape routes



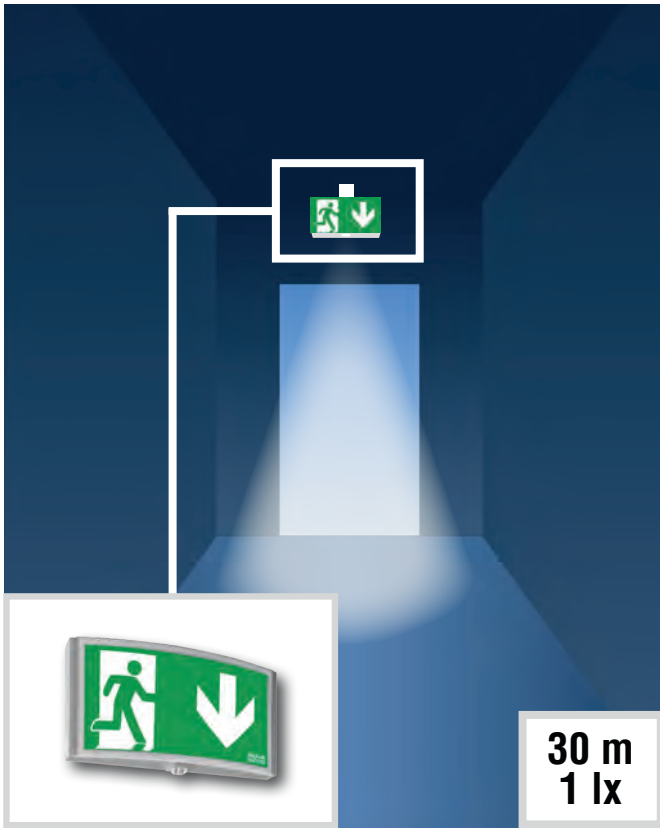
LUMINAIRES

for areas



COMBINED LUMINAIRES

Combined exit sign and safety luminaires for marking and illumination



Combination of exit sign and safety luminaire in one luminaire

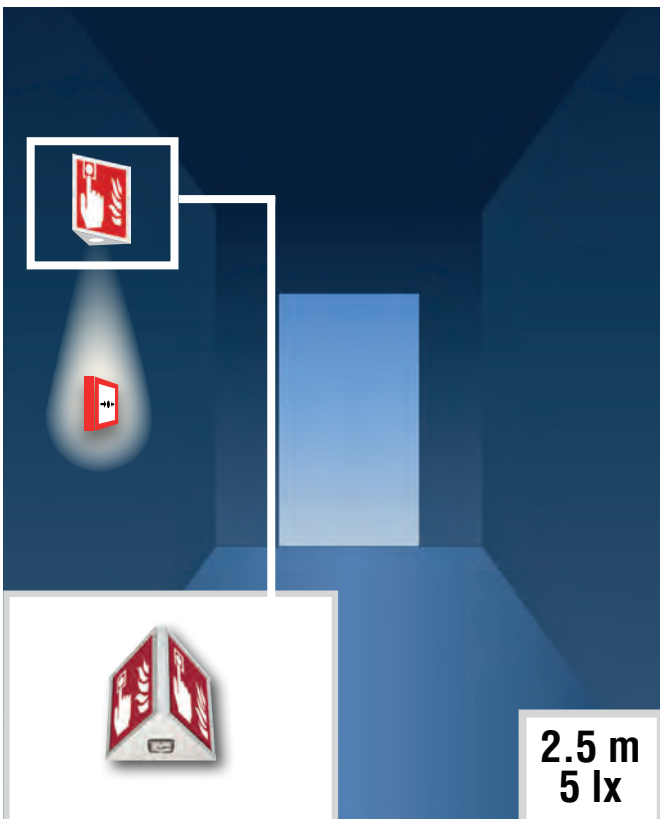
Ideal for **marking and illumination of exits and changes of direction**

Either for **marking and illumination of safety devices**

Seperate switching of both luminaires

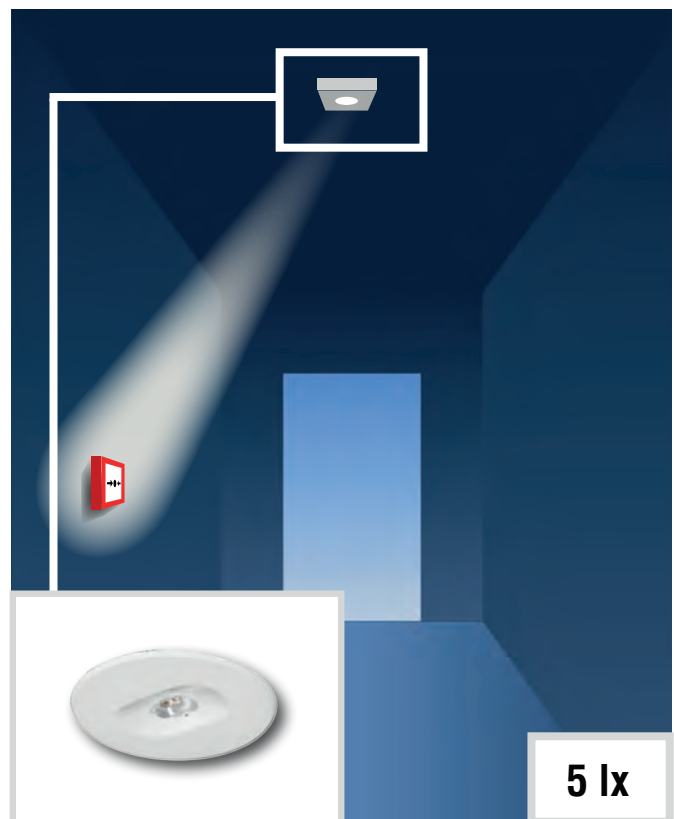
COMBINED LUMINAIRES

Safety sign and safety luminaires for illumination of safety devices



SAFETY LUMINAIRES

for illumination of safety devices





LUMINAIRES FOR INNOVATIVE
DECENTRAL & CENTRAL SUPPLY
SICURO24 & SICURO230






INTEGRATED CONTROL DEVICE
FOR STATIC & DYNAMIC SWITCHING

INTEGRATED TESTING DEVICES
FOR AUTOMATIC TESTS



EXIT SIGN LUMINAIRES
 SAFETY LUMINAIRES
 COMBINED EXIT SIGN AND SAFETY LUMINAIRES
 COMBINED SAFETY SIGN AND SAFETY LUMINAIRES
 FOR
 DECENTRAL AND CENTRAL SUPPLY

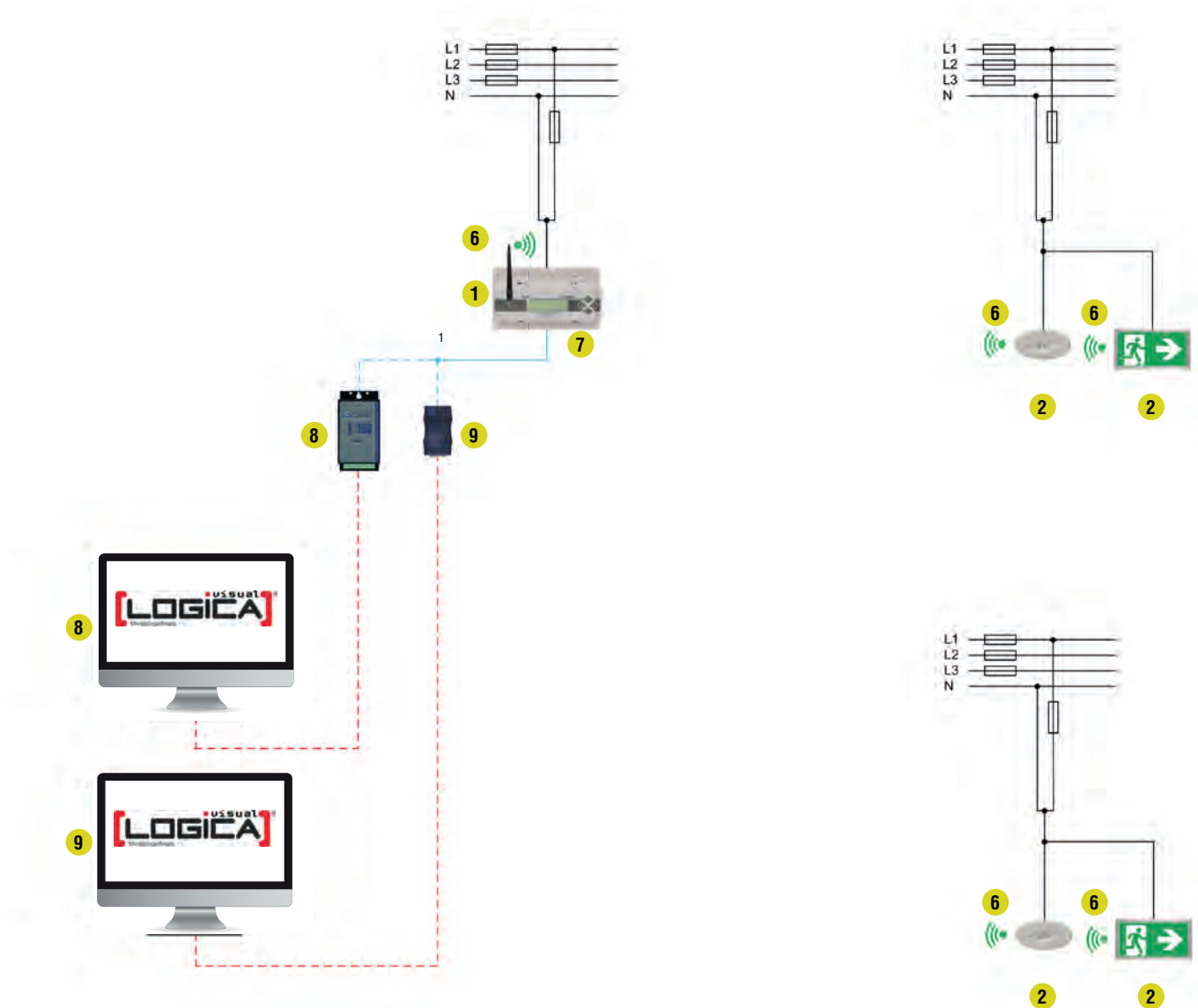
FUNCTIONS

-  Single monitoring
-  Programmable operating modes
-  Combined operating modes
-  Automatic addressing with Sicuro24
-  Manual and automatic addressing with Sicuro230

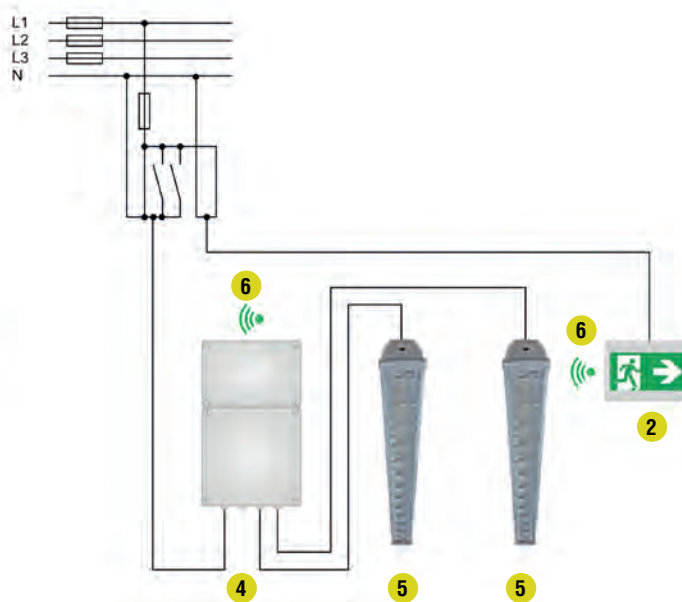
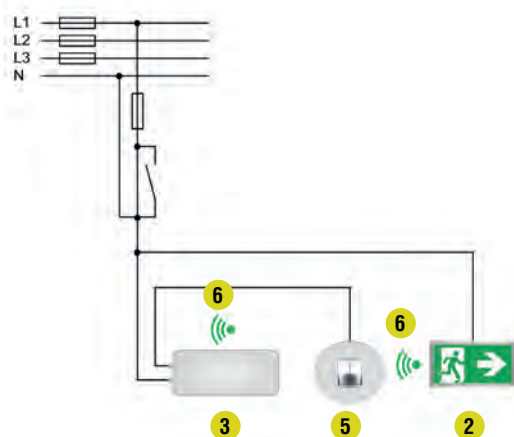
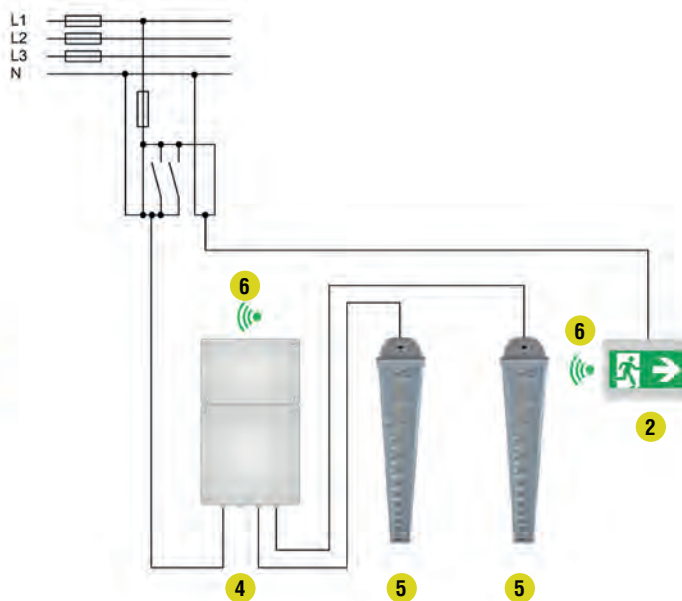
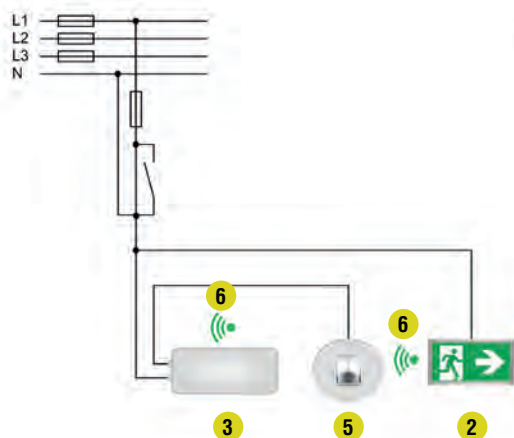


ADVANTAGES

- Fire section- and building-related supply**
- Danger-dependend control** of escape route marking
- Danger-dependend control** of escape route illumination
- Choice of **automatic or manual addressing**
- Automatic addressing** for prevention of addressing failures



- 1 Testing device **Logica FM**
- 2 **Exit sign and safety luminaires** with Logica FM interface
- 3 **Supply module** with Logica FM interface
- 4 **Supply device** with Logica FM interface
- 5 **Combined general and safety luminaire**



- 6** **Logica FM interface** for max. 320 luminaires, modules and devices (radio bus: ZigBee®)
- 7** **RS485 bus** for USB and ethernet interface
- 8** **USB interface** for computer with software Logica Visual
- 9** **Ethernet interface** for computer with software Logica Visual

Distance: approx. 25 m between interface and interface



TESTING DEVICE LOGICA FM

DIN EN 62034-compliant automatic testing device for monitoring and control of exit sign luminaires, safety luminaires, supply modules and supply units with single-battery supply and integrated Logica FM interface.

Communication between the testing device and max. 320 exit sign luminaires, safety luminaires, supply modules and supply units using the Logica FM interface via radio bus according to the ZigBee® standard. All Logica FM interfaces have an integrated repeater.

Automatic addressing of the exit sign luminaires, safety luminaires, supply modules and supply units.

PROGRAMMING

- Test parameters (date/time/duration/cycle) for each system
- Free assignment of exit sign luminaires, emergency luminaires, supply modules and supply units to the monitoring and control groups

INTERFACES

RS485 interface for connection of

- USB interface
- Ethernet interface

RS232 interface for connection of

- Printer or modbus

OPERATION

Operated on the automatic testing device or via a computer with the Logica Visual software (option) via USB interface or Ethernet interface (options).

Input: 4 buttons

Output: 1 display (2 x 16 characters)

TECHNICAL DATA

| | |
|--------------------------------|------------------|
| Mounting options: | DIN rail |
| Housing: | Polycarbonate |
| Degree of protection: | IP20 |
| Protection class: | II |
| Dimensions (H x W x D): | 90 x 160 x 75 mm |



FUNCTIONS

MONITORING

- Automatic running of function tests and run time tests, either simultaneously or at different times for monitoring groups
- Manual running of function tests and run time tests for each exit sign luminaire, safety luminaire, supply module and supply unit, or monitoring group

CONTROL

- Manual switching (on / off) during mains operation for each exit sign luminaire, safety luminaire, supply module and supply unit or monitoring group
- Manual switching (on / off) during emergency operation for each exit sign luminaire, safety luminaire, supply module and supply unit or monitoring group

MESSAGE/SAVE

- Faults (lamp / battery / charging / communication failure) for each exit sign luminaire, safety luminaire, supply module and supply unit
- Results of function tests and run time tests for each exit sign luminaire, emergency safety luminaire, supply module and supply unit

INPUTS AND OUTPUTS

Free input/output of monitoring and control parameters and system data

- Run time 1 h, 3 h or 8 h for each exit sign luminaire and emergency luminaire and 1 h or 3 h for each supply module and supply unit
- Operating mode (continuous or standby operation) for each exit sign luminaire, emergency luminaire, supply module and supply unit



LOGICA FM FOR DISTRIBUTOR INTEGRATION

Housing: Polycarbonate, grey (RAL 7035)
Dimensions (H x W x D): 90 x 160 x 75 mm
Degree of protection: IP20
Protection class: II
Mounting options: DIN rail
Power supply: 198 V–254 V / 50 Hz
Ambient temperature: 0 °C to 40 °C

| Order code | Description |
|------------|-------------------------------------|
| 16303 | Version for distributor integration |



LOGICA FM FOR WALL MOUNTING with combined fault signalling module

Housing: Polystyrene, grey (RAL 7035)
Dimensions (H x W x D): 458 x 295 x 130 mm
Degree of protection: IP65
Protection class: II
Mounting options: Wall mounting
Power supply: 198 V–254 V / 50 Hz
Ambient temperature: 0 °C to 40 °C

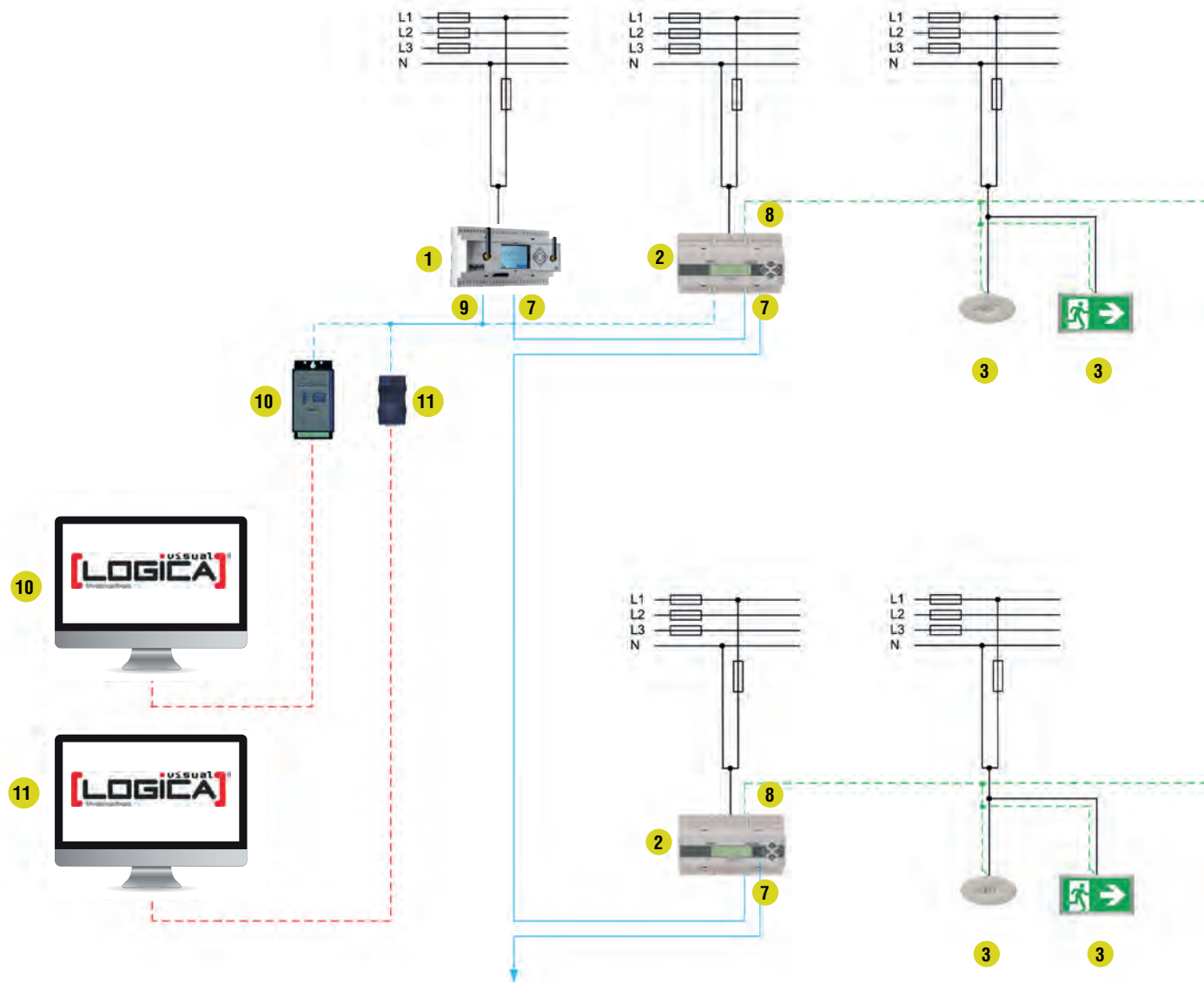
| Order code | Description |
|------------|---------------------------------------------|
| 16303-B | 1 x Logica FM + 1 x fault signalling module |



FM-REPEATER Module for strengthening the radio signal

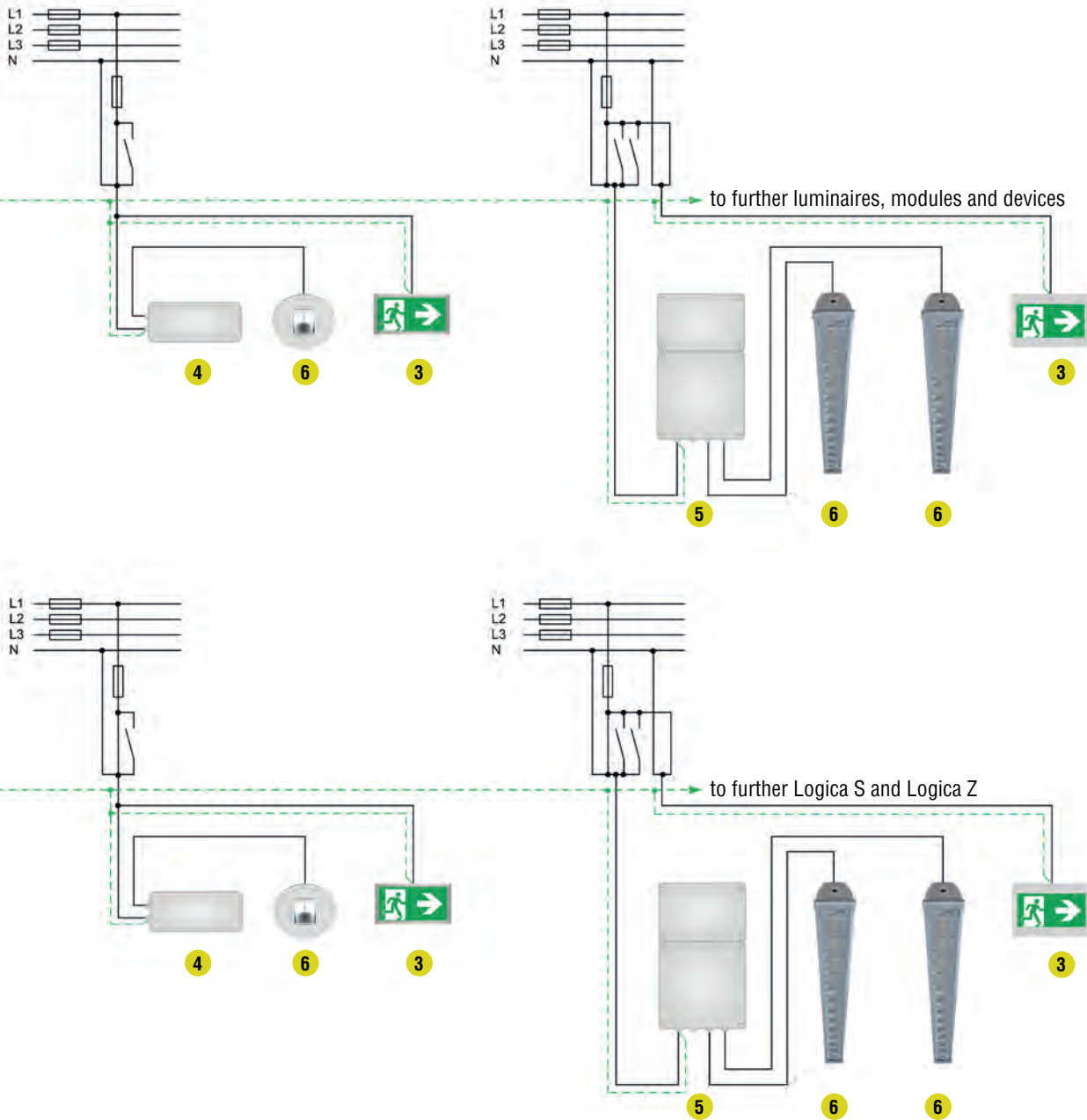
Housing: Polycarbonate, grey (RAL 7035)
Dimensions (H x W x D): 80 x 160 x 60 mm
Degree of protection: IP65
Protection class: II
Mounting options: Wall mounting or ceiling mounting
Power supply: 198 V–254 V / 50 Hz
Ambient temperature: 0 °C to 40 °C

| Order code | Description |
|------------|-------------|
| 16321 | FM-Repeater |



- 1 Testing device **Logica Z**
- 2 Testing device **Logica S**
- 3 **Exit sign and safety luminaire** with Logica interface
- 4 **Supply module** with Logica interface
- 5 **Supply device** with Logica interface
- 6 **Combined general and safety luminaire**
- 7 **RS485-Interface** for max. 31 Logica S

Line bus: min. 2 x 2 x 0.28 mm², shielded
 Length: max. 1.000 m
 Typology: serial



8 Logica-Interface for max. 64 luminaires, modules and devices

Line bus: 2 x 0.5 mm², length max. 150 m
 2 x 1 mm², length max. 300 m
 2 x 1.5 mm², length max. 500 m
 Typology: serial or parallel

9 RS485 interface for USB- and ethernet interface

10 USB interface for computer with software Logica Visual

11 Ethernet interface for computer with software Logica Visual



TESTING DEVICE LOGICA S AND LOGICA Z

DIN EN 62034-compliant automatic testing device for monitoring and control of exit sign luminaires, safety luminaires, supply modules and supply units with single battery supply and Logica FM interface.

Communication between the Logica S testing device and max. 64 exit sign luminaires, safety luminaires, supply modules and supply units using the Logica FM interface via a bus line according to the DALI standard.

Communication between the Logica Z testing device and max. 31 Logica S testing devices using a bus line via RS485 interfaces.

Automatic addressing of the exit sign luminaires, safety luminaires, supply modules and supply units.

PROGRAMMING

- Test parameters (date, time, duration, cycle) for each system
- Free assignment of exit sign luminaires, emergency luminaires, supply modules and supply units to the monitoring and control groups

INTERFACES

RS485 interface (Logica S and Logica Z) for connection of

- USB interface
- Ethernet interface

RS232 interface (Logica Z) for connection of

- Printer or modbus

OPERATION

Operated on the automatic testing device or via a computer with the Logica Visual software (option) via USB interface or Ethernet interface (options).

Input: 4 buttons

Output: 1 display (2 x 16 characters)

TECHNICAL DATA

| | |
|--------------------------------|------------------|
| Mounting options: | DIN rail |
| Housing: | Polycarbonate |
| Degree of protection: | IP20 |
| Protection class: | II |
| Dimensions (H x W x D): | 90 x 160 x 75 mm |



FUNCTIONS

MONITORING

- Automatic running of function tests and run time tests, either simultaneously or at different times, for monitoring groups
- Manual running of function tests and run time tests for each exit sign luminaire, safety luminaire, supply module and supply unit, or monitoring group

CONTROL

- Manual switching (on / off) during mains operation for each exit sign luminaire, safety luminaire, supply module and supply unit or monitoring group
- Manual switching (on / off) during emergency operation for each exit sign luminaire, safety luminaire, supply module and supply unit or monitoring group

MESSAGE (LOGICA S UND LOGICA Z) / SAVE (LOGICA Z)

- Faults (lamp / battery / charging / communication failure) for each exit sign luminaire, safety luminaire, supply module and supply unit
- Results of function tests and run time tests for each exit sign luminaire, safety luminaire, supply module and supply unit

INPUTS AND OUTPUTS

Free input/output of monitoring/control parameters and system data

- Run time 1 h, 3 h, or 8 h for each exit sign luminaire and emergency luminaire and 1 h or 3 h for each supply module and supply unit
- Operating mode (continuous or standby operation) for each exit sign luminaire, safety luminaire, supply module and supply unit



LOGICA S + Z FOR DISTRIBUTOR INTEGRATION

Housing: Polycarbonate, grey (RAL 7035)
Dimensions (H x W x D): 90 x 160 x 75 mm
Degree of protection: IP20
Protection class: II
Mounting options: DIN rail
Power supply: 198 V–254 V / 50 Hz
Ambient temperature: 0 °C to 40 °C

Order code

| | |
|--------------|----------|
| 16300 | Logica S |
| 16305 | Logica Z |



LOGICA S FOR WALL MOUNTING

Housing: Polystyrene, grey (RAL 7035)
Dimensions (H x W x D): 458 x 295 x 130 mm
Degree of protection: IP65
Protection class: II
Mounting options: Wall mounting
Power supply: 198 V–254 V / 50 Hz
Ambient temperature: 0 °C to 40 °C

Order code

Description

| | |
|----------------|----------|
| 16300-B | Logica S |
|----------------|----------|



LOGICA Z FOR WALL MOUNTING

with combined fault signalling module

Housing: Polystyrene, grey (RAL 7035)
Dimensions (H x W x D): 458 x 295 x 130 mm
Degree of protection: IP65
Protection class: II
Mounting options: Wall mounting
Power supply: 198 V–254 V / 50 Hz
Ambient temperature: 0 °C to 40 °C

Order code

Description

| | |
|----------------|--------------------------------------------|
| 16305-B | 1 x Logica Z + 1 x fault signalling module |
|----------------|--------------------------------------------|



LOGICA S + Z FOR WALL MOUNTING

with combined fault signalling module

Housing: Polystyrene, grey (RAL 7035)
Dimensions (H x W x D): 583 x 295 x 130 mm
Degree of protection: IP65
Protection class: II
Mounting options: Wall mounting
Power supply: 198 V–254 V / 50 Hz
Ambient temperature: 0 °C to 40 °C

Order code

Description

| | |
|---------------|-----------------------------------------------------------|
| F90300 | 1 x Logica S + 1 x Logica Z + 1 x fault signalling module |
|---------------|-----------------------------------------------------------|



COMBINED FAULT SIGNALLING MODULE

Module for external transmission of a combined fault.

| | |
|--------------------------------|--------------------------------------------------|
| Signal output: | Changeover contact, potential-free (250 V / 5 A) |
| Housing: | Polycarbonate, grey (RAL 7035) |
| Dimensions (H x W x D): | 95 x 48 x 42 mm |
| Degree of protection: | IP20 |
| Protection class: | II |
| Mounting options: | DIN rail |
| Ambient temperature: | 0 °C to 40 °C |

| Order code | Description |
|------------|----------------------------------|
| G31305 | Combined fault signalling module |



RS485-RS232 ETHERNET-INTERFACE

Module for indirect connection between a Logica FM, Logica Z or Logica S automatic testing device and a computer with the Logica Visual software via a network.

| | |
|--------------------------------|-----------------|
| Housing: | Plastic |
| Dimensions (H x W x D): | 30 x 87 x 56 mm |
| Degree of protection: | IP20 |
| Protection class: | III |
| Mounting options: | DIN rail |

| Order code | Description |
|------------|----------------------------------|
| 12135 | RS485-RS232 / Ethernet-Interface |



RS485 / USB-INTERFACE

Module for communication between Logica FM, Logica Z or Logica S and a computer with the Logica Visual software via USB.

| | |
|--------------------------------|------------------|
| Housing: | Metal |
| Dimensions (H x W x D): | 151 x 75 x 26 mm |
| Degree of protection: | IP20 |
| Protection class: | III |
| Mounting options: | DIN rail |

| Order code | Description |
|------------|---------------------|
| 16319 | RS485-USB-Interface |

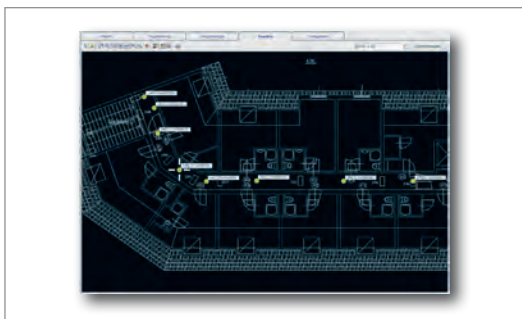


PRINTER

Printer for connection to an automatic testing device Logica FM or Logica Z. Printout of fault messages and test results.

| | |
|--------------------------------|-----------------|
| Paper type: | Thermopaper |
| Housing: | Plastic, black |
| Dimensions (H x W x D): | 85 x 53 x 85 mm |
| Degree of protection: | IP20 |
| Protection class: | I |
| Mounting options: | DIN rail |

| Order code | Description |
|------------|-------------|
| 16302 | Printer |



| Order code | Description |
|------------|---------------|
| SWB16311 | Logica Visual |

LOGICA VISUAL Monitoring and control software

Software for centralised monitoring and control of complex emergency lighting systems with single battery supply, decentralised supply, or central supply.

PROGRAMMING

Version for Windows XP (32 / 64 Bit), Windows VISTA (32 / 64 Bit), Windows 7 (32 / 64 Bit) and Windows 8 (32 / 64 Bit), Windows 10 (32 / 64 Bit)

- Import of floor plans as DXF/DWG file
- Textual and graphic allocation of all systems, circuits and luminaires and for all luminaires, supply units and supply modules
- System parameters for each system
- Test parameters for each system
- Operating mode for each circuit or luminaire (decentral and central supply)
- Circuitry for each circuit or luminaire (decentral and central supply), and for each exit sign luminaire, safety luminaire, supply module and supply unit (self-contained supply)
- Test parameters (date, time, duration, cycle) for each system
- Free assignment of exit sign luminaires, emergency luminaires, supply modules and supply units to the control groups (self-contained supply)
- Free allocation of the circuits and luminaires to monitoring and control modules for each system (decentral and central supply)
- 3 programmable time control views with 7 x 5 switching commands (continuous mode) for each system (decentral supply)

FUNCTIONS

MONITORING

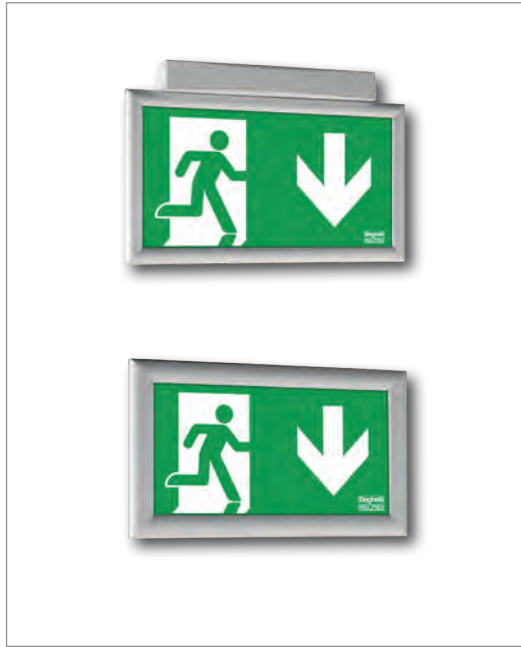
- Automatic or manual running of a function test
- Automatic or manual running of a run time test

CONTROL

- Manual switching (on / off) during mains operation for each exit sign luminaire, safety luminaire, supply module and supply unit or control group (self-contained supply)
- Manual dimming (7.5 to 100%) during mains operation for each exit sign luminaire, safety luminaire or control group (self-contained supply)
- Manual switching (on / off) of continuous mode during mains operation for each system (decentral and central supply)

MESSAGE

- Current status in online mode (operating status / operating mode / faults / tests) in graphical and numeric format for each luminaire (decentral and central supply) and for each exit sign luminaire, safety luminaire, supply module and supply unit (self-contained supply)
- Faults in online mode (lamp / communication failure) for each luminaire (central supply) and (lamp / battery / charge / communication failure) for each exit sign luminaire, emergency luminaire, supply module and supply unit (self-contained supply)
- Testing of the last 2 years for each system, decentral supply, central supply and self-contained supply



PLURALUCE

Flat design housing in sheet steel or Polycarbonate and frame display with aluminium frame and integrated light guide panel made of opal plastic. Homogeneous light distribution ensures optimal illumination of the exit sign. Single or double-sided escape route signage is provided thanks to exchangeable films.

Versions for surface mounting on walls, ceilings, or brackets, with equipment for recessed mounting on walls or ceilings or for wire or rod suspension

Version Sicuro24 also for recessed mounting on fire protection walls / fire protection ceilings of fire resistance class F30 or F90

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

| | | | |
|----------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------|
| Housing: | Sheet steel, grey (RAL 7035) (wall) Polycarbonate, grey (RAL 7035) (ceiling, suspension, bracket suspension) | Service life $L_{80}B_{50}$: | 50.000 h |
| Frame: | Aluminium, anodized | Color stability: | 3 SDCM |
| Display pane: | Light guide panel | | |
| Film: | Methacrylate, printed | | |
| Type of protection: | IP40 (wall), IP41 (Ceiling, suspension, bracket suspension) | | |



SELF-CONTAINED SUPPLY

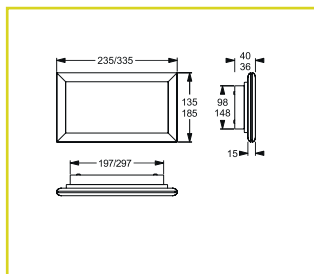
| | |
|------------------------------------------------------------|--------------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: Classic: 0 °C to +40 °C |
| Specification: Maintained or non-maintained mode | Protection class: I |

DECENTRAL SUPPLY

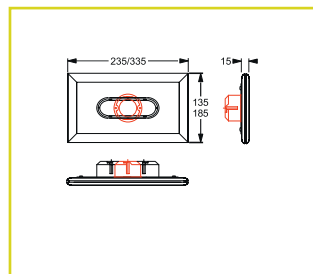
| | |
|-------------------------------------------|-------------------------------------------------|
| Mains supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Battery supply: 24 V +/- 20% DC | Protection class: III |

CENTRAL SUPPLY

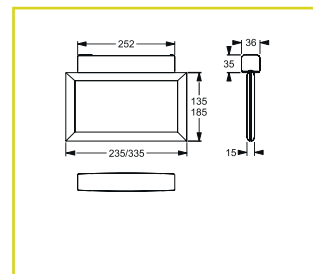
| | |
|-------------------------------------------|-------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: -20 °C to +40 °C |
| Battery supply: 176 V–276 V | Protection class: I |



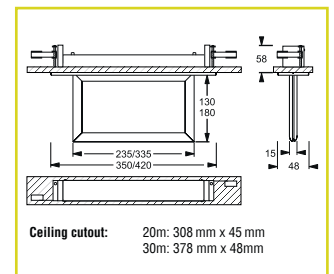
Surface wall mounting



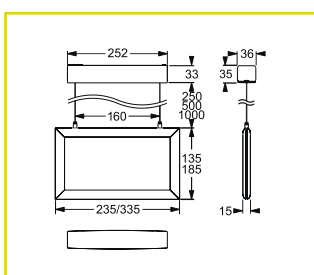
Surface wall mounting in mounting box



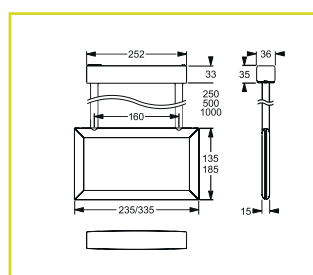
Surface ceiling mounting



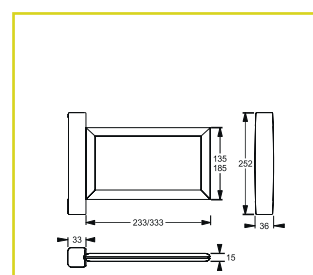
Ceiling cutout:
20m: 308 mm x 45 mm
30m: 378 mm x 48 mm



Wire suspension









Suspension rod






Bracket suspension





CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code |  |  |  |  Autotest |  Logica |  |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface wall mounting / recessed wall mounting (single faced indication) ¹ | | | | | | | | |
| 16707 | 16709 | 16711 | 20 m | 16 | 1 h / 3 h | NiCd 7.2V / 0.75 Ah | NiMh 7.2V / 1.2 Ah | 6 VA |
| 16706 | 16708 | 16710 | 30 m | 24 | 1 h / 3 h | NiCd 7.2V / 0.75 Ah | NiMh 7.2V / 1.2 Ah | 7 VA |
| Surface ceiling mounting / recessed ceiling mounting, suspension, bracket suspension (double faced indication) ² | | | | | | | | |
| 16701 | 16703 | 16705 | 20 m | 32 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 0.6 Ah | 8 VA |
| 16700 | 16702 | 16704 | 30 m | 48 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 0.6 Ah | 10 VA |

DECENTRAL SUPPLY

| Sicuro24 Order code |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Surface wall mounting / recessed wall mounting (single faced indication) ¹ | | | |
| 32035 | 20 m | 16 | 1.7 W ³ |
| 32034 | 30 m | 24 | 2.2 W ³ |
| Surface ceiling mounting / recessed ceiling mounting, suspension, bracket suspension (double faced indication) ² | | | |
| 32033 | 20 m | 32 | 2.9 W |
| 32032 | 30 m | 48 | 4.3 W |



CENTRAL SUPPLY








| Sicuro230 Order code |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface wall mounting / recessed wall mounting (single faced indication) ¹ | | | | |
| 31035 | 20 m | 16 | 4.8 VA / 1.8 W | |
| 31034 | 30 m | 24 | 5.8 VA / 2.5 W | |
| Surface ceiling mounting / recessed ceiling mounting, suspension, bracket suspension (double faced indication) ² <small>kennzeichnung</small> ² | | | | |
| 31033 | 20 m | 32 | 7.4 VA / 3.5 W | |
| 31032 | 30 m | 48 | 9.4 VA / 4.7 W | |

¹ Recessed wall mounting requires an additional installation box according to DIN 49073 for concealed or hollow wall assembly (not supplied). F. i.: brand Kaiser, order no. 9062-02, 1056-04 resp. 1556-04 or 1656-02, 9063-01 resp. 9064-01, to be sourced locally

² For recessed ceiling mounting and suspension mounting, please order equipment separately

³ Recessed ceiling mounting or mounting in fire ceilings with the fire resistance class F30 or F90 according to DIN 4102-4 requires an additional installation box F. i.: brand Kaiser, order no. 9463-01, 9463-02, 9464-01, 9464-02 resp. 1564-01 (wall) or 9463-50 resp. 9464-50 (ceiling), to be sourced locally

| Included in standard delivery | | |
|-------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Order code | Description | |
| VD 20 m | VD 30 m | |
| 16770 | 16779 | Kit of exit sign films single faced indication  |
| 16771 | 16780 | Kit of exit sign films double faced indication  |

| Please order exit sign equipment separately | | |
|---------------------------------------------|----------------|----------------------------------------------------------------------------------------------------|
| Order code | Description | |
| VD 20 m | VD 30 m | |
| 16772 | 16781 | Exit sign film  |
| 16773 | 16782 | Exit sign film  |
| 16774 | 16783 | Exit sign film  |
| 16775 | 16784 | Exit sign film  |
| 16776 | 16785 | Exit sign film  |
| 16777 | 16786 | Exit sign film  |
| 16778 | 16787 | Exit sign film  |

| Please order additional equipment separately | | |
|----------------------------------------------|----------------|---------------------------------|
| Order code | Description | |
| VD 20m | VD 30 m | |
| 19384 | 19386 | Recessed ceiling mounting set |
| 19380 | 19380 | Suspension rod, round, 250 mm |
| 19381 | 19381 | Suspension rod, round, 500 mm |
| 19382 | 19382 | Suspension rod, round, 2.000 mm |
| 19383 | 19383 | Wire suspension 1.200 mm |
| 19385 | 19387 | Concrete ceiling box |



PLEXI LED

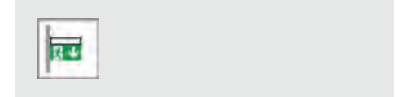
Flat design housing in sheet steel and frameless display with integrated light guide panel made of clear plastic. Homogeneous light distribution ensures optimal illumination of the exit sign. Single or double-sided escape route signage is provided thanks to exchangeable films.

Versions for surface wall mounting, surface ceiling mounting, recessed ceiling mounting, or wire suspension with cables and with equipment for

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Stainless steel, white (RAL 9003)
Display pane: Light guide panel
Film: Methacrylate, printed

Service life $L_{80}B_{50}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

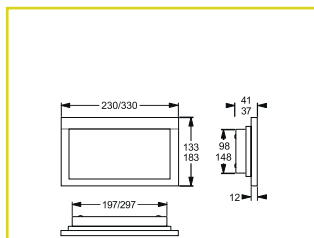
Mains supply: 198 V–254 V/50 Hz
Specification: Maintained or non-maintained mode
Ambient temperature: LTO: -20 °C to +50 °C
 Classic: 0 °C to +40 °C
Protection class: I

DECENTRAL SUPPLY

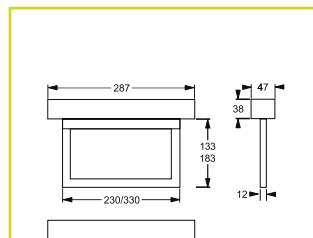
Battery supply: 24 V +/- 20% DC
Mains supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Protection class: III

CENTRAL SUPPLY

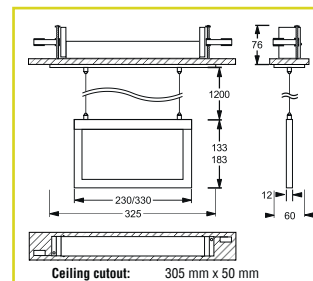
Battery supply: 176 V–276 V
Mains supply: 198 V–254 V/50 Hz
Ambient temperature: -20 °C to +40 °C
Protection class: I



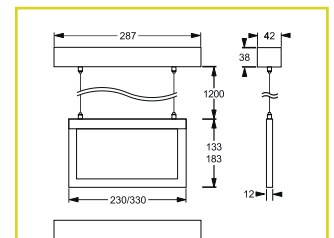
Surface wall mounting



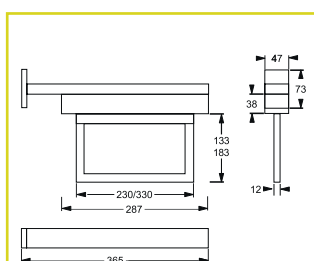
Surface ceiling mounting



Recessed ceiling mounting



Wire suspension



Bracket suspension



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | |
|-------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------------|------------------------|---------|
| Surface wall mounting (single faced indication) | | | | | | | |
| 37150 | 37151 | 37152 | 20 m | 32 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37153 | 37154 | 37155 | 30 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface ceiling mounting, bracket suspension (double faced indication) ¹ | | | | | | | |
| 37144 | 37145 | 37146 | 20 m | 32 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37147 | 37148 | 37149 | 30 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Recessed ceiling mounting (double faced indication) | | | | | | | |
| 37138 | 37139 | 37140 | 20 m | 32 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37141 | 37142 | 37143 | 30 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Wire suspension (double faced indication) | | | | | | | |
| 37132 | 37133 | 37134 | 20 m | 32 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37135 | 37136 | 37137 | 30 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | Autotest | Logica | |
|-------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------|--------------------|--------------------|--------------------|-------|
| Surface wall mounting (single faced indication) | | | | | | | | | |
| 36194 | 36195 | 36196 | 20 m | 32 | 1 h / 3 h | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 8 VA |
| 36197 | 36198 | 36199 | 30 m | 48 | 1 h / 3 h | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |
| Surface ceiling mounting, bracket suspension (double faced indication) ¹ | | | | | | | | | |
| 36188 | 36189 | 36190 | 20 m | 32 | 1 h / 3 h | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 8 VA |
| 36191 | 36192 | 36193 | 30 m | 48 | 1 h / 3 h | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |
| Recessed ceiling mounting (double faced indication) | | | | | | | | | |
| 36182 | 36183 | 36184 | 20 m | 32 | 1 h / 3 h | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 8 VA |
| 36185 | 36186 | 36187 | 30 m | 48 | 1 h / 3 h | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |
| Wire suspension (double faced indication) | | | | | | | | | |
| 36176 | 36177 | 36178 | 20 m | 32 | 1 h / 3 h | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 8 VA |
| 36179 | 36180 | 36181 | 30 m | 48 | 1 h / 3 h | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |

SICURO^{LED} DECENTRAL SUPPLY

| Sicuro24 Order code | | | |
|-------------------------------------------------------------------------------------|------|----|-------|
| Surface wall mounting (single faced indication) | | | |
| 32081 | 20 m | 32 | 2.9 W |
| 32082 | 30 m | 48 | 4.3 W |
| Surface ceiling mounting, bracket suspension (double faced indication) ¹ | | | |
| 32079 | 20 m | 32 | 2.9 W |
| 32080 | 30 m | 48 | 4.3 W |
| Recessed ceiling mounting (double faced indication) | | | |
| 32077 | 20 m | 32 | 2.9 W |
| 32078 | 30 m | 48 | 4.3 W |
| Wire suspension (double faced indication) | | | |
| 32075 | 20 m | 32 | 2.9 W |
| 32076 | 30 m | 48 | 4.3 W |

SICURO^{PMO} CENTRAL SUPPLY

| Sicuro230 Order code | | | | |
|-------------------------------------------------------------------------------------|------|----|----------------|--|
| Surface wall mounting (single faced indication) | | | | |
| 31110 | 20 m | 32 | 7.4 VA / 3.5 W | |
| 31111 | 30 m | 48 | 9.4 VA / 4.7 W | |
| Surface ceiling mounting, bracket suspension (double faced indication) ¹ | | | | |
| 31108 | 20 m | 32 | 7.4 VA / 3.5 W | |
| 31109 | 30 m | 48 | 9.4 VA / 4.7 W | |
| Recessed ceiling mounting (double faced indication) | | | | |
| 31106 | 20 m | 32 | 7.4 VA / 3.5 W | |
| 31107 | 30 m | 48 | 9.4 VA / 4.7 W | |
| Wire suspension (double faced indication) | | | | |
| 31104 | 20 m | 32 | 7.4 VA / 3.5 W | |
| 31105 | 30 m | 48 | 9.4 VA / 4.7 W | |

¹ For bracket suspension, please order equipment separately

Please order exit sign equipment separately

| Order code | Description | |
|------------|-------------|----------------|
| VD 20 m | VD 30 m | |
| 16772 | 16781 | Exit sign film |
| 16773 | 16782 | Exit sign film |
| 16774 | 16783 | Exit sign film |
| 16775 | 16784 | Exit sign film |
| 16776 | 16785 | Exit sign film |
| 16777 | 16786 | Exit sign film |
| 16778 | 16787 | Exit sign film |

Included in standard delivery

| Order code | Description | |
|------------|------------------------------------------------|--|
| VD 20 m | | |
| 16770 | Kit of exit sign films single faced indication | |
| 16771 | Kit of exit sign films double faced indication | |



DISPOS EVO

Square design housing made of sheet steel or stainless sheet steel in universal versions. Single or double-sided escape route signage is provided thanks to exchangeable display inserts.

Versions for surface wall mounting or surface ceiling mounting, or with equipment for recessed wall mounting, wire or rod suspension, or mounting on brackets

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

| | |
|----------------------|--------------------------------------------------------|
| Housing: | Sheet steel, white (RAL 9003) Stainless steel (V2A) |
| Blende: | Sheet steel, white (RAL 9003) Stainless steel (V2A) |
| Display pane: | Methacrylate, printed |

| | |
|------------------------------------------------|----------|
| Service life $L_{80}P_{50}$: | 50.000 h |
| Color stability: | 3 SDCM |



SELF-CONTAINED SUPPLY

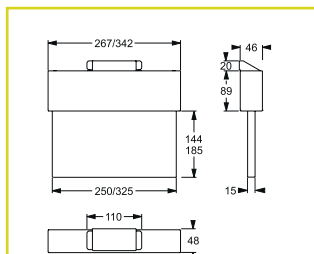
| | |
|-----------------------------|--------------------------------------------------|
| Mains supply: | 198 V–254 V/50 Hz |
| Specification: | Maintained or non-maintained mode |
| Ambient temperature: | LTO: -20 °C to +50 °C Classic: 0 °C to +40 °C |
| Protection class: | I |

DECENTRAL SUPPLY

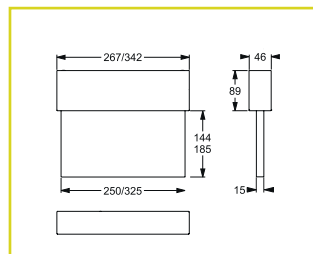
| | |
|-----------------------------|------------------|
| Battery supply: | 24 V +/- 20% DC |
| Mains supply: | 24 V +/- 20% DC |
| Ambient temperature: | -20 °C to +40 °C |
| Protection class: | III |

CENTRAL SUPPLY

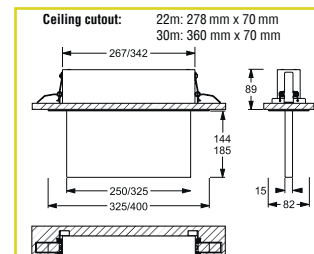
| | |
|-----------------------------|-------------------|
| Battery supply: | 176 V–276 V |
| Mains supply: | 198 V–254 V/50 Hz |
| Ambient temperature: | -20 °C to +40 °C |
| Protection class: | I |



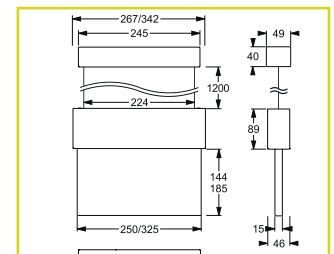
Surface wall mounting



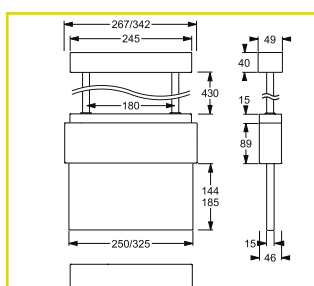
Surface ceiling mounting



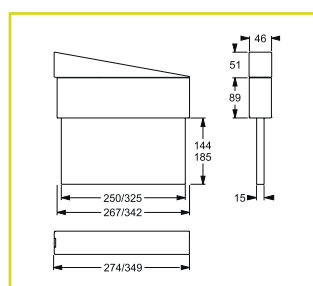
Recessed ceiling mounting



Wire suspension



Suspension rod



Bracket suspension



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | |
|---------------------|-------------------|----------------------|--|--|--|--|--|
|---------------------|-------------------|----------------------|--|--|--|--|--|

Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication)¹

| | | | | | | | |
|--------------|--------------|--------------|------|----|-----------------|------------------------|---------|
| 37000 | 37001 | 37002 | 22 m | 24 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37006 | 37007 | 37008 | 30 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

Stainless steel V2A

Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication)¹

| | | | | | | | |
|--------------|--------------|--------------|------|----|-----------------|------------------------|---------|
| 37003 | 37004 | 37005 | 22 m | 24 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37009 | 37010 | 37011 | 30 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | Autotest | Logica | |
|---------------------|-------------------|----------------------|--|--|--|--|----------|--------|--|
|---------------------|-------------------|----------------------|--|--|--|--|----------|--------|--|

Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication)¹

| | | | | | | | | |
|--------------|--------------|--------------|------|----|-----------|--------------------|--------------------|-------|
| 36000 | 36001 | 36002 | 22 m | 24 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 7 VA |
| 36006 | 36007 | 36008 | 30 m | 48 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |

Stainless steel V2A

Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication)¹

| | | | | | | | | |
|--------------|--------------|--------------|------|----|-----------|--------------------|--------------------|-------|
| 36003 | 36004 | 36005 | 22 m | 24 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 7 VA |
| 36009 | 36010 | 36011 | 30 m | 48 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |



DECENTRAL SUPPLY

| Sicuro24 Order code | | | |
|---------------------|--|--|--|
|---------------------|--|--|--|

Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication)¹

| | | | |
|--------------|------|----|-------|
| 32000 | 22 m | 24 | 2.2 W |
| 32002 | 30 m | 48 | 4.3 W |

Stainless steel V2A

Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication)¹

| | | | |
|--------------|------|----|-------|
| 32001 | 22 m | 24 | 2.2 W |
| 32003 | 30 m | 48 | 4.3 W |



CENTRAL SUPPLY

| Sicuro230 Order code | | | | |
|----------------------|--|--|--|--|
|----------------------|--|--|--|--|

Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication)¹

| | | | |
|--------------|------|----|----------------|
| 31000 | 22 m | 24 | 5.8 VA / 2.5 W |
| 31002 | 30 m | 48 | 9.4 VA / 4.7 W |

Stainless steel V2A

Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication)¹

| | | | |
|--------------|------|----|----------------|
| 31001 | 22 m | 24 | 5.8 VA / 2.5 W |
| 31003 | 30 m | 48 | 9.4 VA / 4.7 W |

¹ For recessed ceiling mounting, wire and rod suspension, please order equipment separately

Included in standard delivery

| VD 22 m | VD 30 m | |
|---------------|---------------|----------------------------------|
| F95951 | F95951 | Adapter for wall mounting, white |
| F95958 | F95958 | Adapter for wall mounting, V2A |

Please order exit sign equipment separately

| Order code | Description | |
|----------------|----------------|-------------------------------|
| VD 22 m | VD 30 m | |
| E16260M | E16128M | Exit sign pane |
| E16262 | E16130 | Exit sign pane |
| E16261 | E16129 | Exit sign pane |
| E16310M | E16318M | Exit sign pane (double faced) |
| E16311M | E16319M | Exit sign pane (double faced) |
| E16263M | E16132M | Exit sign pane |
| E16312M | E16320M | Exit sign pane |
| E16313M | E16321M | Exit sign pane |
| | E16435 | Safety sign fire extinguisher |
| | E16436 | Safety sign extinguisher hose |
| | E16437 | Safety sign fire detector |

Please order additional equipment separately

| Order code | Description | |
|----------------|----------------|---------------------------------------|
| VD 22 m | VD 30 m | |
| F95947 | F95948 | Recessed ceiling mounting set, white |
| F95954 | F95955 | Recessed ceiling mounting set, V2A |
| F95946 | F95946 | Wire suspension, max. 1.200 mm, white |
| F95953 | F95953 | Wire suspension, max. 1.200 mm, V2A |
| F95949 | F95950 | Bracket suspension, white |
| F95956 | F95957 | Bracket suspension, V2A |
| F95945 | F95945 | Suspension rod, round, 500 mm, white |
| F95952 | F95952 | Suspension rod, round, 500 mm, V2A |
| F95959 | F95960 | Concrete ceiling box |



MULTI-D

Square design housing made of sheet steel in universal versions. Suitable for all variations of mounting. Single or double faced escape route marking by exchangeable pane.

Versions available für wall mounting (single faced), recessed / ceiling mounting, pendant and bracket mounting (double faced)

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

| | |
|----------------------|------------------------------|
| Housing: | Sheet steel, grey (RAL 9006) |
| Blende: | Sheet steel, grey (RAL 9006) |
| Display pane: | Methacrylate |
| Film: | Methacrylate, printed |

| | |
|-------------------------------------------------|----------|
| Service life $L_{80} B_{50}$: | 50.000 h |
| Color stability: | 3 SDCM |



SELF-CONTAINED SUPPLY

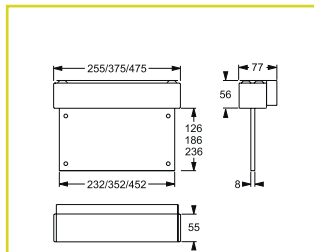
| | |
|------------------------------------------------------------|--------------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: Classic: 0 °C to +40 °C |
| Specification: Maintained or non-maintained mode | Protection class: I |

DECENTRAL SUPPLY

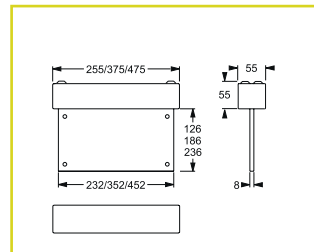
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 24 V +/- 20% DC | Protection class: III |

CENTRAL SUPPLY

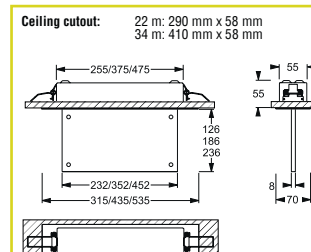
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 176 V–254 V | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 198 V–254 V/50 Hz | Protection class: I |



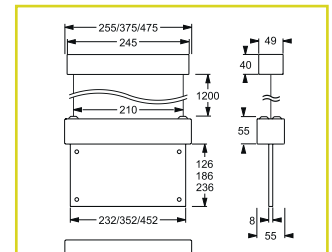
Surface wall mounting



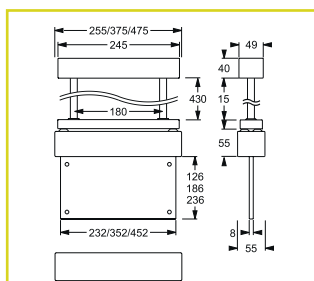
Surface ceiling mounting



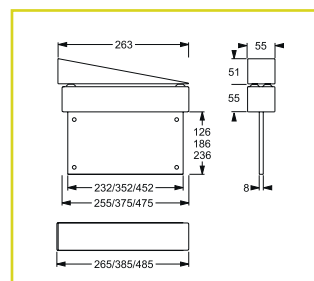
Recessed ceiling mounting



Wire suspension









Suspension rod






Bracket suspension





CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code |  |  |  |  | Autotest |  | Logica |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication) ¹ | | | | | | | | | | |
| 36238 | 36239 | 36240 | 22 m | 24 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | | NiMh 7.2V / 1.2 Ah | | 7 VA |
| 36241 | 36242 | 36243 | 34 m | 32 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | | NiMh 7.2V / 1.2 Ah | | 8 VA |
| 36244 | 36245 | 36246 | 44 m | 48 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | | NiMh 7.2V / 1.2 Ah | | 10 VA |

DECENTRAL SUPPLY

| Sicuro24 Order code |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication) ¹ | | | |
| 32098 | 22 m | 24 | 2.2 W |
| 32099 | 34 m | 32 | 4.9 W |
| 32100 | 44 m | 48 | 4.3 W |


CENTRAL SUPPLY

| Sicuro230 Order code |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface wall mounting (single faced indication), surface or recessed ceiling mounting, wire and rod suspension, bracket suspension (double faced indication) ¹ | | | | |
| 31151 | 22 m | 24 | 5.8 VA / 2.5 W | |
| 31152 | 34 m | 32 | 7.4 VA / 3.5 W | |
| 31153 | 44 m | 48 | 9.4 VA / 4.7 W | |

Please order mounting equipment separately

| Order code | | | Description |
|------------|---------|---------|---------------------------------------------|
| VD 22 m | VD 34 m | VD 44 m | |
| F95902 | F95903 | F95904 | Recessed ceiling mounting set |
| F95905 | F95905 | F95905 | Wire suspension, adjustable length 1.200 mm |
| F95901 | F95901 | F95901 | Bracket suspension |
| F95906 | F95906 | F95906 | Suspension rod, round, length 500 mm |
| F95914 | F95915 | | Concrete ceiling box |
| F95917 | F95918 | F95191 | Cable cover, white |
| F95920 | F95921 | F95922 | Cable cover, V2A |

Included in standard delivery

| Order code | | | Description |
|------------|---------|---------|--------------------------------------------------------------------------------------------------------------|
| VD 22 m | VD 34 m | VD 44 m | |
| E16500M | E16501M | E16502M | Kit of exit sign films  |
| F95900 | F95900 | F95900 | Adapter for wall mounting |



ALU-K

Housing made of flat aluminium profiles with angular contours. Additional light output in the case of wall mounting. Single or double-sided escape route signage is provided thanks to exchangeable inserts.

Versions for wall mounting or with equipment for ceiling mounting or wire or rod suspension mounting, or mounting on brackets

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Aluminium, anodized
Display pane: Methacrylate, printed

Service life $L_{80P_{50}}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

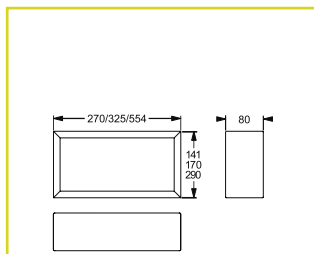
Mains supply: 198 V–254 V/50 Hz
Specification: Maintained or non-maintained mode
Ambient temperature: LTO: -20 °C to +50 °C
 Classic: 0 °C to +40 °C
Protection class: I

DECENTRAL SUPPLY

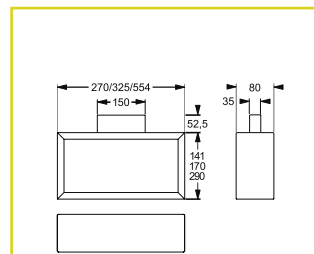
Battery supply: 24 V +/- 20% DC
Mains supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Protection class: III

CENTRAL SUPPLY

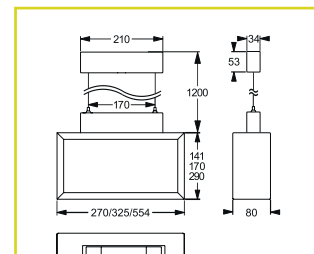
Battery supply: 176 V–276 V
Mains supply: 198 V–254 V/50 Hz
Ambient temperature: -20 °C to +40 °C
Protection class: I



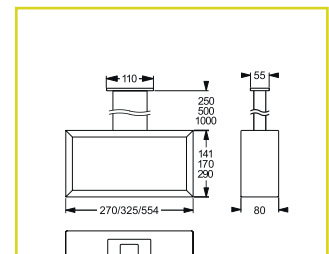
Surface wall mounting



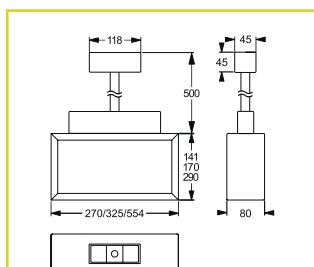
Surface ceiling mounting



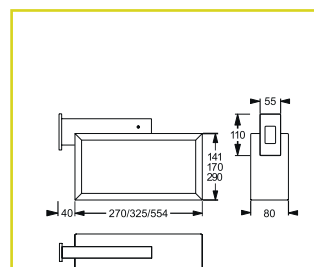
Wire suspension



Suspension rod rectangular



Suspension rod round



Bracket suspension



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | |
|-------------------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------------|------------------------|---------|
| Surface wall mounting (single faced indication) | | | | | | | |
| 37033 | 37034 | 37035 | 24 m | 24 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37036 | 37037 | 37038 | 30 m | 32 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37039 | 37040 | 37041 | 53 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | | | | |
| 37042 | 37043 | 37044 | 24 m | 24 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37045 | 37046 | 37047 | 30 m | 32 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37048 | 37049 | 37050 | 53 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | | |
|-------------------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------|--------------------|--------------------|-------|
| Surface wall mounting (single faced indication) | | | | | | | | |
| 36033 | 36034 | 36035 | 24 m | 24 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 7 VA |
| 36036 | 36037 | 36038 | 30 m | 32 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |
| 36039 | 36040 | 36041 | 53 m | 48 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | | | | | |
| 36042 | 36043 | 36044 | 24 m | 24 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 7 VA |
| 36045 | 36046 | 36047 | 30 m | 32 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |
| 36048 | 36049 | 36050 | 53 m | 48 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |

SICURO^{LED} DECENTRAL SUPPLY

| Sicuro24 Order code | | | |
|-------------------------------------------------------------------------------------------------|------|----|-------|
| Surface wall mounting (single faced indication) | | | |
| 32011 | 24 m | 24 | 2.2 W |
| 32012 | 30 m | 32 | 2.9 W |
| 32013 | 53 m | 48 | 4.3 W |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | |
| 32014 | 24 m | 24 | 2.2 W |
| 32015 | 30 m | 32 | 2.9 W |
| 32016 | 53 m | 48 | 4.3 W |

SICURO^{LED} CENTRAL SUPPLY

| Sicuro230 Order code | | | | |
|-------------------------------------------------------------------------------------------------|------|----|----------------|--|
| Surface wall mounting (single faced indication) | | | | |
| 31011 | 24 m | 24 | 5.8 VA / 2.5 W | |
| 31012 | 30 m | 32 | 7.4 VA / 3.5 W | |
| 31013 | 53 m | 48 | 9.4 VA / 4.7 W | |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | |
| 31014 | 24 m | 24 | 5.8 VA / 2.5 W | |
| 31015 | 30 m | 32 | 7.4 VA / 3.5 W | |
| 31016 | 53 m | 48 | 9.4 VA / 4.7 W | |

Exit sign pane

¹ For surface ceiling mounting, suspension and bracket suspension, please order equipment separately

Please order exit sign equipment separately

| Order code | Description | | |
|------------|-------------|---------|--------------------------|
| VD 24 m | VD 30 m | VD 53 m | |
| E16710M | E16715M | E16720M | Exit sign pane |
| E16711M | E16716M | E16721M | Exit sign pane |
| E16712M | E16717M | E16722M | Exit sign pane |
| E16713 | E16718 | E16723 | Opal plastic pane, white |
| E16714 | E16719 | E16724 | Opal plastic pane, grey |
| E16733M | E16725M | | Exit sign pane |
| E16734M | E16726M | | Exit sign pane |
| E16735M | E16727M | | Exit sign pane |
| E16736M | E16728M | | Exit sign pane |
| E16729M | E16730M | E16731M | Exit sign pane |
| | E16442 | | Safety sign extinguisher |
| | E16443 | | Safety sign fire hose |
| | E16444 | | Safety sign fire button |

Please order additional equipment separately

| Order code | Description | | |
|------------|-------------|---------|----------------------------------------------------|
| VD 24 m | VD 30 m | VD 53 m | |
| F95717 | F95717 | F95717 | Adapter for ceiling mounting ¹ |
| F95718 | F95718 | F95718 | Suspension rod, rectangular, 250 mm ¹ |
| F95719 | F95719 | F95719 | Suspension rod, rectangular, 500 mm ¹ |
| F95720 | F95720 | F95720 | Suspension rod, rectangular, 1.000 mm ¹ |
| F95722 | F95722 | F95722 | Suspension rod, round, 500 mm ¹ |
| F95723 | F95723 | F95723 | Wire suspension, max. 1.200 mm ¹ |
| F95714 | F95721 | F95729 | Bracket suspension ¹ |
| F95722 | F95722 | F95722 | Suspension rod, round, 500 mm ¹ |
| | F95724 | | Wire guard |

¹ Sheet steel, aluminium grey



KUBUS

Housing made of flat sheet steel profiles with angular contours. Additional light output in the case of wall mounting. Single or double-sided escape route signage is provided thanks to exchangeable inserts.

Versions for wall mounting or with equipment for ceiling mounting, wire or rod suspension mounting, mounting on brackets and chain/cable mounting

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9003)
Display pane: Methacrylate, clear

Service life L_{50} : 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

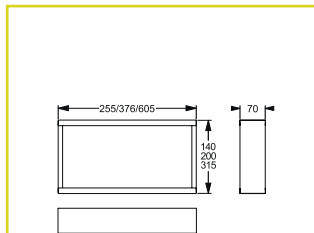
Mains supply: 198 V–254 V/50 Hz
Specification: Maintained or non-maintained mode
Ambient temperature: LTO : -20 °C to 50 °C
 Classic: 0 °C to +40 °C
Protection class: I

DECENTRAL SUPPLY

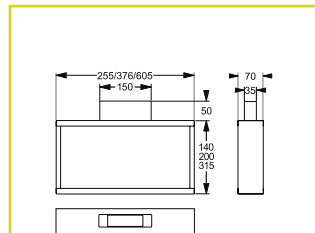
Battery supply: 24 V +/- 20% DC
Mains supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Protection class: III

CENTRAL SUPPLY

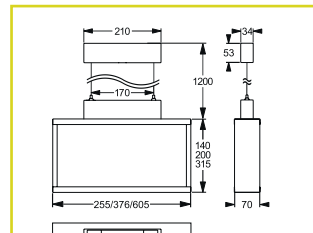
Battery supply: 176 V–276 V
Mains supply: 198 V–254 V/50 Hz
Ambient temperature: -20 °C to +40 °C
Protection class: I



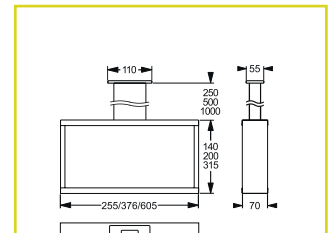
Surface wall mounting



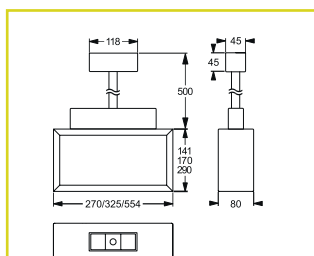
Surface ceiling mounting



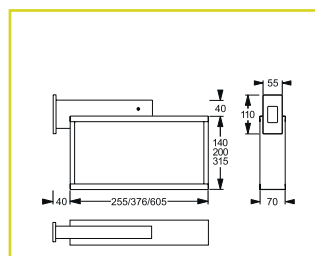
Wire suspension



Suspension rod rectangular



Suspension rod round



Bracket suspension



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | |
|---------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------------|------------------------|---------|
| Surface wall mounting (single faced indication) | | | | | | | |
| 37012 | 37013 | 37014 | 21 m | 24 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37015 | 37016 | 37017 | 34 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37018 | 37019 | 37020 | 56 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface ceiling mounting, suspension, bracket suspension, chain or wire suspension (double faced indication) ¹ | | | | | | | |
| 37021 | 37022 | 37023 | 21 m | 24 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37024 | 37025 | 37026 | 34 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| 37027 | 37028 | 37029 | 56 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | Autotest | Logica | |
|---------------------------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------|--------------------|--------------------|--------|-------|
| Surface wall mounting (single faced indication) | | | | | | | | | |
| 36012 | 36013 | 36014 | 21 m | 24 | 1 h / 3 h | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | | 7 VA |
| 36015 | 36016 | 36017 | 34 m | 48 | 1 h / 3 h | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | | 10 VA |
| 36018 | 36019 | 36020 | 56 m | 48 | 1 h / 3 h | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | | 10 VA |
| Surface ceiling mounting, Pendel, Bracket suspension (2-seitige Escape routekennzeichnung) ¹ | | | | | | | | | |
| 36021 | 36022 | 36023 | 21 m | 24 | 1 h / 3 h | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | | 7 VA |
| 36024 | 36025 | 36026 | 34 m | 48 | 1 h / 3 h | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 0.6 Ah | | 10 VA |
| 36027 | 36028 | 36029 | 56 m | 48 | 1 h / 3 h | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 0.6 Ah | | 10 VA |



DECENTRAL SUPPLY

| Sicuro 24 Order code | | | |
|---------------------------------------------------------------------------------------------------------------------------|------|----|-------|
| Surface wall mounting (single faced indication) | | | |
| 32004 | 21 m | 24 | 2.5 W |
| 32005 | 34 m | 48 | 4.3 W |
| 32006 | 56 m | 48 | 4.3 W |
| Surface ceiling mounting, suspension, bracket suspension, chain or wire suspension (double faced indication) ¹ | | | |
| 32007 | 21 m | 24 | 2.2 W |
| 32008 | 34 m | 48 | 4.3 W |
| 32009 | 56 m | 48 | 4.3 W |



CENTRAL SUPPLY

| Sicuro 230 Order code | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------|----|----------------|--|
| Surface wall mounting (single faced indication) | | | | |
| 31004 | 21 m | 24 | 5.8 VA / 2.5 W | |
| 31005 | 34 m | 48 | 9.4 VA / 4.7 W | |
| 31006 | 56 m | 48 | 9.4 VA / 4.7 W | |
| Surface ceiling mounting, suspension, bracket suspension, chain or wire suspension (double faced indication) ¹ (nung) ¹ | | | | |
| 31007 | 21 m | 24 | 5.8 VA / 2.5 W | |
| 31008 | 34 m | 48 | 9.4 VA / 4.7 W | |
| 31009 | 56 m | 48 | 9.4 VA / 4.7 W | |

¹ For surface ceiling mounting, wire and rod suspension, bracket suspension please order equipment separately

Please order exit sign equipment separately

| Order code | Description | | |
|------------|-------------|---------|--------------------------|
| VD 21 m | VD 34 m | VD 56 m | |
| E16604M | E16608M | E16134M | Exit sign pane |
| E16605M | E16609M | E16135M | Exit sign pane |
| E16606M | E16610M | E16136M | Exit sign pane |
| E16620M | E16640M | E16645M | Exit sign pane |
| E16622M | E16642M | E16647M | Exit sign pane |
| E16621M | E16641M | E16646M | Exit sign pane |
| E16623M | E16643M | E16648M | Exit sign pane |
| E16607 | E16611 | E16234 | Opal plastic pane, grey |
| E16242 | E16241 | E16251 | Opal plastic pane, white |

Please order additional equipment separately

| Order code | Description | | |
|------------|-------------|---------|---------------------------------------|
| VD 21 m | VD 34 m | VD 56 m | |
| F95057 | F95057 | F95057 | Adapter for ceiling mounting |
| F95600 | F95600 | F95600 | Suspension rod, rectangular, 250 mm |
| F95601 | F95601 | F95601 | Suspension rod, rectangular, 500 mm |
| F95602 | F95602 | F95602 | Suspension rod, rectangular, 1.000 mm |
| F95400 | F95400 | F95400 | Suspension rod, round, 500 mm |
| F95401 | F95401 | F95401 | Wire suspension, max. 1.200 mm |
| F95055 | F95056 | F95070 | Bracket suspension |
| F95067 | F95067 | F95067 | Adapter for chain or wire suspension |
| F95032K | F95032K | | Wire guard |

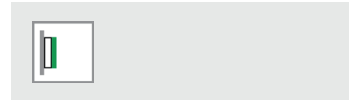


KUBUS65

High protection. Housing made of sheet steel or sheet stainless steel with frame cover and a clear insert. Lighting control is provided by a specular aluminium reflector. Single or double-sided escape route signage is provided thanks to self-adhesive films.

Versions for wall mounting or with equipment for ceiling mounting or wire or rod suspension mounting, or mounting on brackets.

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9003)
Stainless steel, V2A

Display pane: Methacrylate, clear

Service life $L_{80/B_{50}}$: 50.000 h

Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Mains supply: 198 V–254 V/50 Hz

Ambient temperature: LTO: -20 °C to +50 °C
Classic: 0 °C to +40 °C

Specification: Maintained or non-maintained mode

Protection class: I

DECENTRAL SUPPLY

Battery supply: 24 V +/- 20% DC

Ambient temperature: -20 °C to +40 °C

Mains supply: 24 V +/- 20% DC

Protection class: III

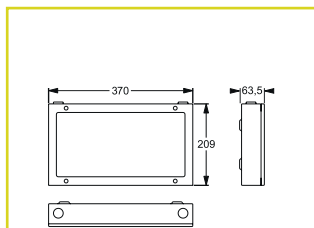
CENTRAL SUPPLY

Battery supply: 176 V–276 V

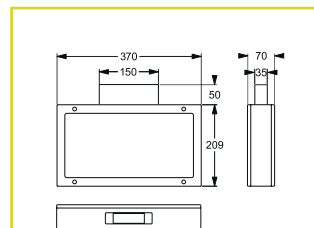
Ambient temperature: -20 °C to +40 °C

Mains supply: 198 V–254 V/50 Hz

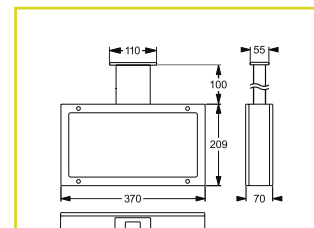
Protection class: I



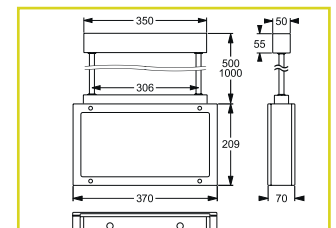
Surface wall mounting



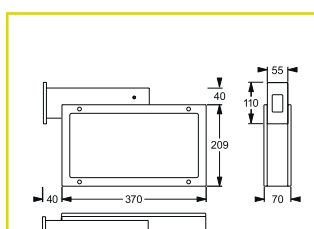
Surface ceiling mounting



Suspension rod rectangular



Suspension rod round



Bracket suspension



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | |
|-------------------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------------|------------------------|---------|
| Surface wall mounting (single faced indication) | | | | | | | |
| 37060 | 37061 | 37062 | 32 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | | | | |
| 37063 | 37064 | 37065 | 32 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Stainless steel V2A surface wall mounting (single faced indication) ¹ | | | | | | | |
| 37066 | 37067 | 37068 | 32 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | | | | |
| 37069 | 37070 | 37071 | 32 m | 48 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | | |
|-------------------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------|-------------------|--------------------|-------|
| Surface wall mounting (single faced indication) | | | | | | | | |
| 36060 | 36061 | 36062 | 32 m | 48 | 1 h / 3 h | NiMH 7.2V / 06 Ah | NiMH 7.2V / 1.2 Ah | 10 VA |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | | | | | |
| 36066 | 36067 | 36068 | 32 m | 48 | 1 h / 3 h | NiMH 7.2V / 06 Ah | NiMH 7.2V / 1.2 Ah | 10 VA |
| Stainless steel V2A surface wall mounting (single faced indication) ¹ | | | | | | | | |
| 36072 | 36073 | 36074 | 32 m | 48 | 1 h / 3 h | NiMH 7.2V / 06 Ah | NiMH 7.2V / 1.2 Ah | 10 VA |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | | | | | |
| 36078 | 36079 | 36080 | 32 m | 48 | 1 h / 3 h | NiMH 7.2V / 06 Ah | NiMH 7.2V / 1.2 Ah | 10 VA |

SICURO^{LED} DECENTRAL SUPPLY

| Sicuro24 Order code | | | |
|-------------------------------------------------------------------------------------------------|------|----|-------|
| Surface wall mounting (single faced indication) | | | |
| 32020 | 32 m | 48 | 4.3 W |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | |
| 32021 | 32 m | 48 | 4.3 W |
| Stainless steel V2A surface wall mounting (single faced indication) ¹ | | | |
| 32022 | 32 m | 48 | 4.3 W |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | |
| 32023 | 32 m | 48 | 4.3 W |

SICURO^{LED} CENTRAL SUPPLY

| Sicuro230 Order code | | | | |
|-------------------------------------------------------------------------------------------------|------|----|----------------|--|
| Surface wall mounting (single faced indication) | | | | |
| 31020 | 32 m | 48 | 9.4 VA / 4.7 W | |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | |
| 31021 | 32 m | 48 | 9.4 VA / 4.7 W | |
| Stainless steel V2A surface wall mounting (single faced indication) ¹ | | | | |
| 31022 | 32 m | 48 | 9.4 VA / 4.7 W | |
| Surface ceiling mounting, suspension, bracket suspension (double faced indication) ¹ | | | | |
| 31023 | 32 m | 48 | 9.4 VA / 4.7 W | |

¹ For surface wall mountin and all suspended versions, please order equipment separately

Please order exit sign equipment separately

| Order code | Description | |
|----------------|------------------------|--|
| E16700M | Kit of exit sign films | |
| E16701M | Kit of exit sign films | |

Please order additional equipment separately

| Order code | Description |
|------------------|---------------------------------------------------|
| White V2A | |
| F95612 | F95613 Adapter for ceiling mounting |
| F95603 | F95608 Suspension rod, rectangular, 100 mm |
| F95604 | F95609 Suspension rod, round, 500 mm |
| F95605 | F95610 Suspension rod, round, 1.000 mm |
| F95606 | F95611 Bracket suspension |
| F95607 | F95607 Wire guard |



ACCIAIO

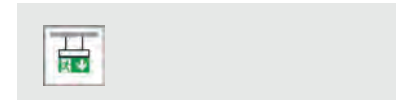
High protection class combined exit sign luminaire / safety luminaire with high impact strength. The housing is made of zinc-coated sheet steel, the caps are made of plastic and the insert is made of tempered glass. The caps and the insert are securely fastened to the housing. Lighting control is provided by a highly reflective aluminium reflector. Single or double-sided escape route signage is provided thanks to exchangeable display inserts. Explosion protection for zone 2 (II 3G Ex nA IIB T4) and zone 22 (II 3D Ex tD A22 T100). Extremely resistant to both mechanical and chemical stress.

Versions for wall mounting and ceiling mounting with swivelling mount or for chain/cable mounting

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

| | |
|----------------------|------------------------------------------------------------|
| Housing: | Sheet steel, galvanized, grey (RAL 9003) |
| Caps: | Polycarbonate / polybutyleneterephthalate, grey (RAL 7040) |
| Display pane: | Methacrylate |
| Film: | Methacrylate, printed |
| Reflector: | Aluminium, specular |

| | |
|-------------------------------------------------|----------|
| Service life $L_{80/B_{50}}$: | 50.000 h |
| Color stability: | 3 SDCM |



SELF-CONTAINED SUPPLY

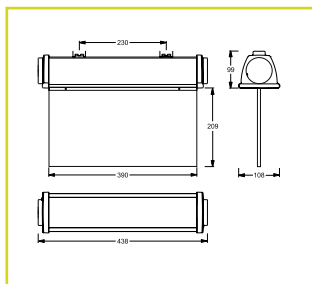
| | |
|------------------------------------------------------------|---------------------------------------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: LTO: -20 °C to +50 °C Classic: 0 °C to +40 °C |
| Specification: Maintained or non-maintained mode | Protection class: I |

DECENTRAL SUPPLY

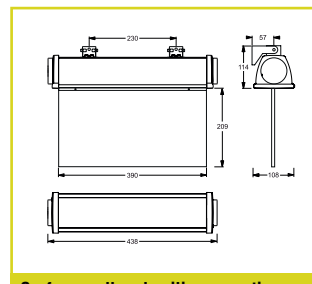
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 24 V +/- 20% DC | Protection class: III |

CENTRAL SUPPLY

| | |
|----------------------------------------|-------------------------------------------------|
| Battery supply: 176V–276V | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 198V–254V/50Hz | Protection class: I |








Surface wall and ceiling mounting









Surface wall and ceiling mounting with swivel bracket



SELF-CONTAINED SUPPLY




| Autotest Order code | Logica Order code | Logica FM Order code |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface wall mounting (single faced indication / area lighting), surface ceiling mounting, chain or wire suspension (double faced indication / area lighting) | | | | | | | |
| 37090 | 37091 | 37092 | 38 m | 32 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code |  |  |  |  Autotest |  Logica |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface wall mounting (single faced indication / area lighting), surface ceiling mounting, chain or wire suspension (double faced indication / area lighting) | | | | | | | | |
| 15030 | 15030 | 15031 | 38 m | 32 | 1 h / 3 h | NiMH 7.2.V / 1.2 Ah | NiMh 7.2V / 1.2 Ah | 10 VA |







DECENTRAL SUPPLY


| Sicuro24 Order code |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Surface wall mounting (single faced indication / area lighting), surface ceiling mounting, chain or wire suspension (double faced indication / area lighting) | | | |
| 32055 | 38 m | 32 | 4.3 W |



CENTRAL SUPPLY

| Sicuro230 Order code |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface wall mounting (single faced indication / area lighting), surface ceiling mounting, chain or wire suspension (double faced indication / area lighting) | | | | |
| 31054 | 38 m | 32 | 9.4 VA / 4.7 W | |

Please order exit sign equipment separately

| Order code | Description |  |
|------------|-------------------------------|-------------------------------------------------------------------------------------|
| 19064 | Kit of exit sign display pane | |

Included in standard delivery

| Order code | Description |
|------------|----------------|
| 20122 | Swivel bracket |



FORMULA65

High protection class exit sign luminaire. Housing with convex light-emitting surface and clear cover with click fasteners. Lighting control is provided by a plastic reflector. Single-sided signage (viewing distance 25 m) is provided by self-adhesive exit sign films, double-sided signage (viewing distance 30 m) is provided by an exit sign display insert. The Formula 65 High version comes with a higher Body.

Versions for surface wall mounting and surface ceiling mounting or with additional equipment for recessed wall mounting, recessed ceiling mounting, wire or rod suspension mounting and mounting on brackets

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

| | |
|----------------------|---------------------------------|
| Housing: | Polycarbonate, white (RAL 9003) |
| Cover: | Polycarbonate, klar |
| Display pane: | Methacrylate, klar |
| Film: | Methacrylate, printed |
| Display pane: | Methacrylate, printed (Kit) |
| Reflector: | Polycarbonate, white |

| | |
|------------------------------------------------|----------|
| Service life $L_{80}B_{50}$: | 50.000 h |
| Color stability: | 3 SDCM |



SELF-CONTAINED SUPPLY

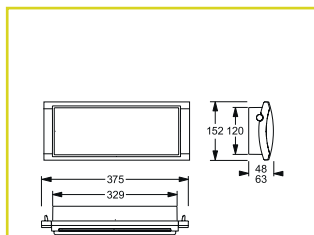
| | |
|------------------------------------------------------------|---------------------------------------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: LTO: -20 °C to +50 °C Classic: 0 °C to +40 °C |
| Specification: Maintained or non-maintained mode | Protection class: II |

DECENTRAL SUPPLY

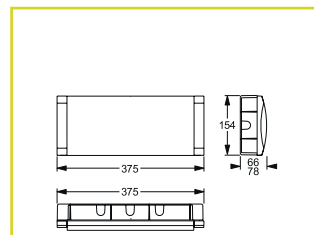
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 24 V +/- 20% DC | Protection class: III |

CENTRAL SUPPLY

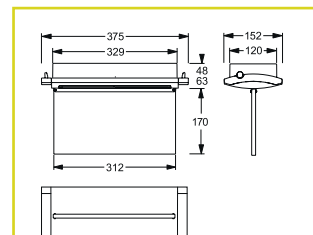
| | |
|----------------------------------------|-------------------------------------------------|
| Battery supply: 176 V–276 V | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 198V–254V/50Hz | Protection class: II |



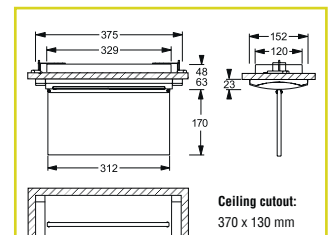
Surface wall mounting



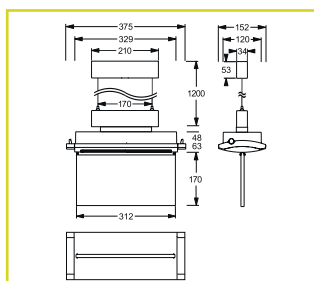
Recessed wall mounting



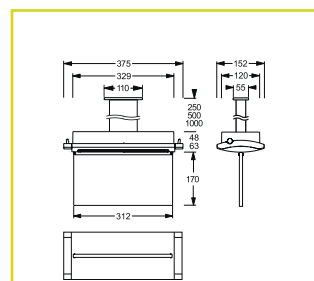
Surface ceiling mounting



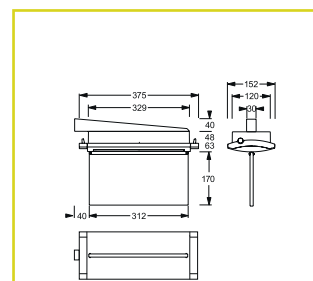
Recessed ceiling mounting



Wire suspension



Suspension rod



Bracket suspension



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----|------------------------|-------|
| Surface wall mounting (single faced indication / area lighting), surface or recessed ceiling mounting, suspension and bracket suspension (double faced indication / area lighting) ¹ | | | | | | | |
| 19296 | 19296+15036 | 19296+15037 | 25 m | 22 | 1 h | 2 x LTO 4.8 V / 1.2 Ah | 13 VA |
| 19296-3 h | 19296-3 h+15036 | 19296-3 h+15037 | 25 m | 22 | 3 h | 2 x LTO 4.8 V / 1.2 Ah | 13 VA |
| 19296-8 h | 19296-8 h+15036 | 19296-8 h+15037 | 25 m | 22 | 8 h | 2 x LTO 4.8 V / 1.2 Ah | 13 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|------|----|-----------|---------------------|-------------------------|--------|
| Surface wall mounting (single faced indication / area lighting), surface or recessed ceiling mounting, suspension and bracket suspension (double faced indication / area lighting) ¹ | | | | | | | | |
| R2436SA | 19239 | 19245 | 25 m | 22 | 1 h / 3 h | NiMh 3.6 V / 1.2 Ah | 2 x NiMh 3.6 V / 1.2 Ah | 8.5 VA |
| Surface or recessed wall mounting (single faced indication), surface or recessed ceiling mounting, suspension and bracket suspension (double faced indication), Extreme Version ¹ | | | | | | | | |
| 19270 | 19270 | 19276 | 25 m | 22 | 1 h / 3 h | NiMh 3.6 V / 1.7 Ah | NiMh 3.6 V / 1.7 Ah | 8 VA |



DECENTRAL SUPPLY

| Sicuro24 Order code | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|-------|
| Surface or recessed wall mounting (single faced indication), surface or recessed ceiling mounting, suspension and bracket suspension (double faced indication), Extreme Version ¹ | | | |
| 32094 | 25 m | 32 | 3.8 W |



CENTRAL SUPPLY

| Sicuro230 Order code | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|----------------|--|
| Surface or recessed wall mounting (single faced indication), surface or recessed ceiling mounting, suspension and bracket suspension (double faced indication), Extreme Version ¹ | | | | |
| 31124 | 25 m | 32 | 8.3 VA / 4.1 W | |

¹ For recessed wall / ceiling mounting, suspension or bracket suspension mounting please order equipment separately

Included in standard delivery

| Order code | Description | |
|------------|-------------------------|--|
| 19044 | RettingszeichenFilmnset | |

Please order exit sign equipment separately

| Order code | Description | |
|-----------------|------------------------|--|
| VD 25 m | VD 30 m | |
| 29000 | Exit sign display pane | |
| E16040M-KIT-F65 | Exit sign display pane | |
| E16041M-KIT-F65 | Exit sign display pane | |
| E16042M-KIT-F65 | Exit sign display pane | |
| E16043M-KIT-F65 | Exit sign display pane | |
| E16045M-KIT-F65 | Exit sign display pane | |

Please order additional equipment separately

| Order code | Description |
|------------|----------------------------------------------------------|
| VD 25 m | VD 30 m |
| F95943 | F95943 Adapter for suspension mounting |
| F95961 | F95961 Adapter for suspension mounting, Extreme Version |
| F95067 | F95067 Adapter for bracket suspension mounting |
| F95600 | F95600 Suspension rod, rectangular, 250 mm |
| F95601 | F95601 Suspension rod, rectangular, 500 mm |
| F95602 | F95602 Suspension rod, rectangular, 1.000 mm |
| F95057 | F95057 Adapter for ceiling mounting |
| 19045 | 19045 Bracket suspension |
| F95942 | F95942 Cover for outdoor bracket suspension |
| 19040 | 19040 Box for recessed wall mounting |
| 19048 | 19048 Box for recessed wall mounting, Extreme Version |
| 19041 | 19041 Box for recessed ceiling mounting |
| 19049 | 19049 Box for recessed ceiling mounting, Extreme Version |

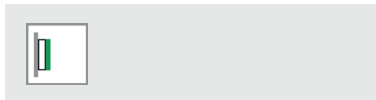


TULA

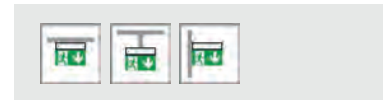
Flat design housing in sheet steel with convex light-emitting surface and opal display pane. Single or double-sided escape route is provided thanks to exchangeable films.

Versions for surface wall mounting or with additional equipment for surface ceiling and mounting on brackets

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Sheet steel, grey (RAL 9006)
Cover: Methacrylate, opal

Service life $L_{80}B_{50}$: 50.000 h
Color stability: 3 SDCM



DECENTRAL SUPPLY

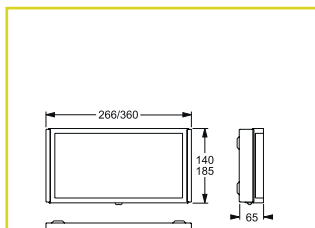
Battery supply:
24 V +/- 20% DC
Mains supply:
24 V +/- 20% DC

Ambient temperature:
-20 °C to +40 °C
S24-Protection class:
III

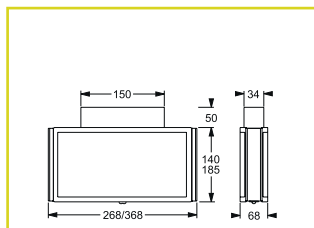
CENTRAL SUPPLY

Battery supply:
176 V-276 V
Mains supply:
198 V-254 V/50 Hz

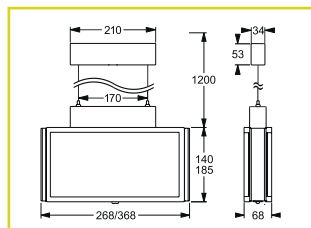
Ambient temperature:
-20 °C to +40 °C
Protection class:
I



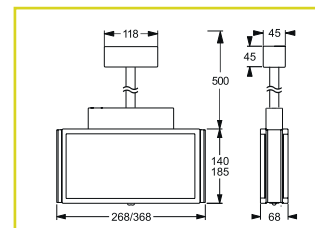
Surface wall mounting



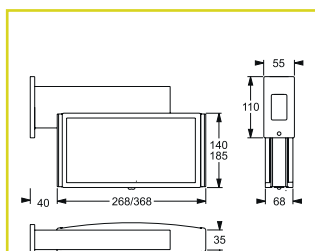
Surface ceiling mounting



Wire suspension






Suspension rod



Bracket suspension

DECENTRAL SUPPLY

| | | | |
|-------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Sicuro24 Order code |  |  |  |
|-------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

Surface wall mounting (single faced indication)

| | | | |
|--------------|------|----|-------|
| 32025 | 23 m | 24 | 2.2 W |
| 32027 | 32 m | 48 | 4.3 W |

Surface ceiling mounting, suspension, bracket suspension (double faced indication)¹

| | | | |
|--------------|------|----|-------|
| 32026 | 23 m | 24 | 2.2 W |
| 32029 | 32 m | 48 | 4.3 W |

¹ For surface ceiling mounting, suspension and bracket suspension please order equipment separately

CENTRAL SUPPLY

| | | | | |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Sicuro230 Order code |  |  |  |  |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|





Surface wall mounting (single faced indication)

| | | | |
|--------------|------|----|----------------|
| 31025 | 23 m | 24 | 5.8 VA / 2.5 W |
| 31027 | 32 m | 48 | 9.4 VA / 4.7 W |

Surface ceiling mounting, suspension, bracket suspension (double faced indication)¹

| | | | |
|--------------|------|----|----------------|
| 31026 | 23 m | 24 | 5.8 VA / 2.5 W |
| 31029 | 32 m | 48 | 9.4 VA / 4.7 W |

Included in standard delivery

| Order code | Description |
|---------------------------------|----------------------------------------------------------------------------------------------------|
| VD 23 m VD 32 m | |
| F15337MU F15338MU | Exit sign film  |
| F15337MR F15338MR | Exit sign film  |
| F15337ML F15338ML | Exit sign film  |
| F15337MO F15338MO | Exit sign film  |

Please order additional equipment separately

| Order code | Description |
|-----------------|-------------------------------------|
| F95109PK | Adapter for ceiling mounting |
| F95109PR | Suspension rod, rectangular, 500 mm |
| F95109PS | Wire suspension, max. 1.200 mm |
| F95109P | Bracket suspension |



MAXIMA

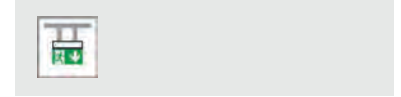
High protection. Body with clear convex shaped cover. Additional down-lighting provided by slots in the body. Single or double-sided escape route signage is provided thanks to exchangeable inserts.

Versions for wall mounting or with equipment for ceiling mounting, wire or rod suspension mounting, mounting on brackets and chain/cable mounting

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Polycarbonate, grey (RAL 7035)
Polyester, grey (RAL 7035)

Display pane: Polycarbonate, clear

Service life $L_{80B_{50}}$: 50.000 h

Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Mains supply: 198 V–254 V/50 Hz

Specification: Maintained or non-maintained mode

Ambient temperature: LTO : -20 °C to 50 °C
Classic: 0 °C to +40 °C

Protection class: II

DECENTRAL SUPPLY

Battery supply: 24 V +/- 20% DC

Mains supply: 24 V +/- 20% DC

Ambient temperature: -20 °C to +40 °C

Protection class: III

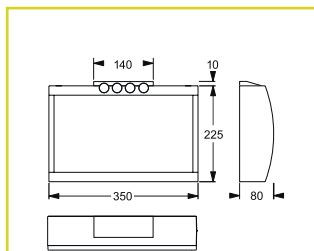
CENTRAL SUPPLY

Battery supply: 176 V–276 V

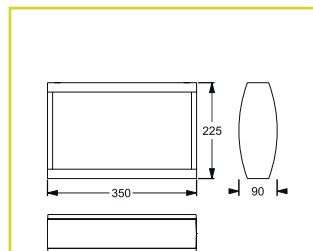
Mains supply: 198 V–254 V/50 Hz

Ambient temperature: -20 °C to +40 °C

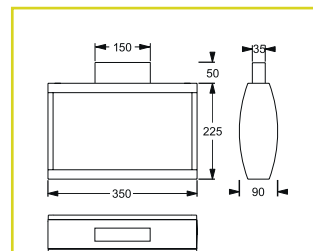
Protection class: II



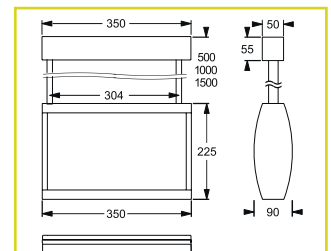
Surface wall mounting



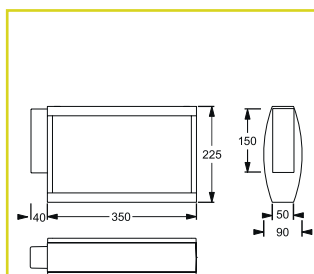
Surface ceiling mounting



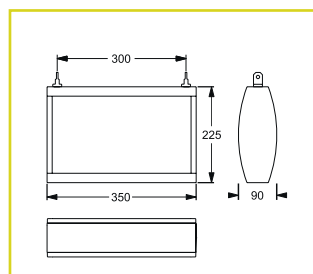
Surface ceiling mounting Adapter



Suspension rod



Bracket suspension



Chain or wire suspension



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | |
|----------------------------------------------------------------------------------------------------------------|-------------------|----------------------|------|---|-----------------|------------------------|---------|
| Surface wall mounting (single faced indication) | | | | | | | |
| 37054 | 37055 | 37056 | 32 m | 2 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface ceiling mounting, suspension, bracket suspension, chain or wire (double faced indication) ¹ | | | | | | | |
| 37057 | 37058 | 37059 | 32 m | 2 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | Autotest | Logica | |
|----------------------------------------------------------------------------------------------------------------|-------------------|----------------------|------|---|-----------|--------------------|--------------------|--------|------|
| Surface wall mounting (single faced indication) | | | | | | | | | |
| 36054 | 36055 | 36056 | 32 m | 2 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | | 8 VA |
| Surface ceiling mounting, suspension, bracket suspension, chain or wire (double faced indication) ¹ | | | | | | | | | |
| 36057 | 36058 | 36059 | 32 m | 2 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | NiMh 7.2V / 1.2 Ah | | 8 VA |



DECENTRAL SUPPLY

| Sicuro24 Order code | | | |
|----------------------------------------------------------------------------------------------------------------|------|---|-------|
| Surface wall mounting (single faced indication) | | | |
| 32018 | 32 m | 2 | 2.9 W |
| Surface ceiling mounting, suspension, bracket suspension, chain or wire (double faced indication) ¹ | | | |
| 32019 | 32 m | 2 | 2.9 W |



CENTRAL SUPPLY

| Sicuro230 Order code | | | | |
|----------------------------------------------------------------------------------------------------------------|------|---|----------------|--|
| Surface wall mounting (single faced indication) | | | | |
| 31018 | 32 m | 2 | 7.4 VA / 3.5 W | |
| Surface ceiling mounting, suspension, bracket suspension, chain or wire (double faced indication) ¹ | | | | |
| 31019 | 32 m | 2 | 7.4 VA / 3.5 W | |

¹For suspension and chain or wire suspension, please order equipment separately

| Please order exit sign equipment separately | |
|---------------------------------------------|-----------------------|
| Order code | Description |
| 29002 | Kit of exit sign film |
| 16917M | Kit of exit sign film |

| Please order additional equipment separately | |
|----------------------------------------------|---------------------------------------------------|
| Order code | Description |
| F95700 | Adapter for ceiling mounting and visible conduits |
| F95510 | Suspension rod, round, 500 mm |
| F95511 | Suspension rod, round, 1.000 mm |
| F95512 | Suspension rod, round, 1.500 mm |
| 3723 | Adapter for chain or wire suspension |
| F95032K | Wire guard |

| Included in standard delivery | |
|-------------------------------|-----------------------|
| Order code | Description |
| 29001 | Kit of exit sign film |



AESTETICA

Housing has a compact design with planar light-emitting surface and a clear insert. Lighting control is provided by a plastic reflector. Single-sided escape route signage is provided thanks to exchangeable display films, double-sided escape route signage is provided by exchangeable display inserts.

Versions for surface wall mounting and surface ceiling mounting or with additional equipment for recessed wall mounting, recessed ceiling mounting and bracket suspension mounting

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Polycarbonate, white (RAL 9003)
Cover: Polycarbonate, clear
Display pane: Methacrylate, printed
Reflector: Polycarbonate, white

Service life $L_{80}B_{50}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

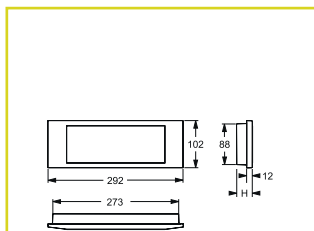
Mains supply: 198 V–254 V/50 Hz
Ambient temperature: Classic: 0 °C to +40 °C
Specification: Maintained or non-maintained mode
Protection class: II

DECENTRAL SUPPLY

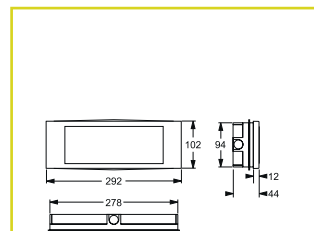
Battery supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Mains supply: 24 V +/- 20% DC
Protection class: III

CENTRAL SUPPLY

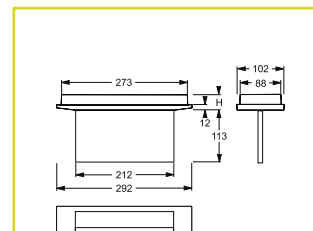
Battery supply: 176 V–276 V
Ambient temperature: -20 °C to +40 °C
Mains supply: 198 V–254 V/50 Hz
Protection class: II



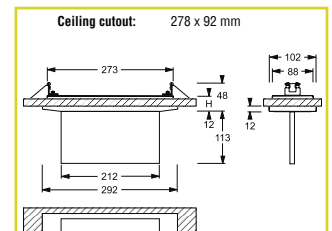
Surface wall mounting



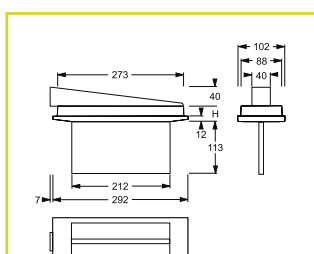
Recessed wall mounting



Surface ceiling mounting



Recessed ceiling mounting



Bracket suspension

CLASSIC SELF-CONTAINED SUPPLY

Autotest
Order code



Surface or recessed wall mounting (single faced indication), surface or recessed ceiling mounting (double faced indication), suspension and bracket suspension (double faced indication)¹

| | | | | | |
|-------|-----------|----|-----|------------------------|-------|
| 16225 | 15 / 20 m | 16 | 3 h | NiMh 3.6V / 1.2 Ah | 11 VA |
| 16226 | 15 / 20 m | 32 | 3 h | 2 x NiMh 3.6V / 1.2 Ah | 11 VA |

SICURO^{LED} DECENTRAL SUPPLY

Sicuro24
Order code

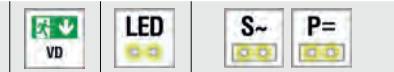


Surface or recessed wall mounting (single faced indication), surface or recessed ceiling mounting (double faced indication), suspension and bracket suspension (double faced indication)¹

| | | | |
|-------|-----------|----|-------|
| 32069 | 15 / 20 m | 20 | 1.7 W |
|-------|-----------|----|-------|

SICURO^{PRO} CENTRAL SUPPLY

Sicuro230
Order code



Surface or recessed wall mounting (single faced indication), surface or recessed ceiling mounting (double faced indication), suspension and bracket suspension (double faced indication)¹

| | | | |
|-------|-----------|----|----------------|
| 31098 | 15 / 20 m | 20 | 4.8 VA / 1.8 W |
|-------|-----------|----|----------------|

¹ For recessed wall / ceiling mounting in cavity walls or hollow ceilings, please order required equipment separately

Please order exit sign equipment separately

| Order code | Description | |
|------------|------------------------|--|
| VD 15 m | VD 20 m | |
| 16235 | Exit sign film | |
| 16236 | Exit sign film | |
| 16237 | Exit sign film | |
| 16233 | Exit sign display pane | |
| 16234 | Exit sign display pane | |

Please order additional equipment separately

| Order code | Description |
|------------|-----------------------------------|
| 4265 | Bracket suspension |
| 3733 | Kit for recessed wall mounting |
| 4266 | Kit for recessed ceiling mounting |

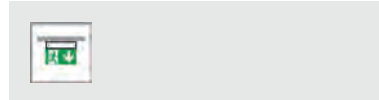


QUADER

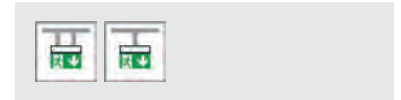
Square housing with cuboid-shaped opal cover. Single, double, or triple-sided escape route signage is provided thanks to self-adhesive films.

Versions for ceiling mounting or with additional equipment for wire or rod suspension mounting and chain/cable mounting

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9003)
Cover: Methacrylate, opal

Service life $L_{80B_{50}}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

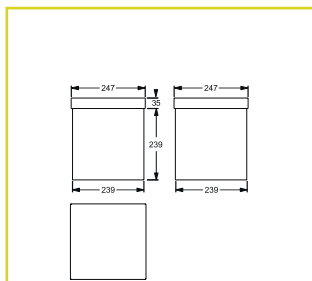
Mains supply: 198 V–254 V/50 Hz
Specification: Maintained or non-maintained mode
Ambient temperature: LTO: -20 °C to +50 °C
 Classic 0 °C to +40 °C
Protection class: I

DECENTRAL SUPPLY

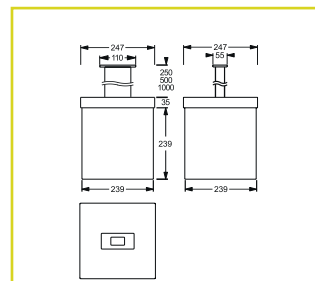
Battery supply: 24 V +/- 20% DC
Mains supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Protection class: III

CENTRAL SUPPLY

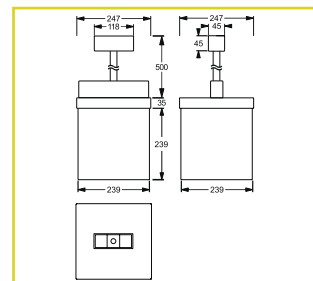
Battery supply: 176 V–276 V
Mains supply: 198 V–254 V/50 Hz
Ambient temperature: -20 °C to +40 °C
Protection class: I



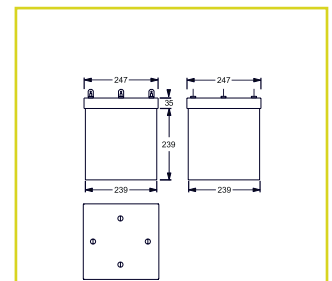
Surface ceiling mounting



Suspension rod rectangular



Suspension rod round








Chain or wire suspension






SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface ceiling mounting, suspension, chain or wire suspension (3-sided escape route lighting) ¹ | | | | | | | |
| 37072 | 37073 | 37074 | 22 m / 44 m | 2 | 1 h / 3 h / 8 h | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |





CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code |  |  |  |  | Autotest |  | Logica |  |
|-------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| Surface ceiling mounting, suspension, chain or wire suspension (3-sided escape route lighting) ¹ | | | | | | | | | | |
| 36084 | 36085 | 36086 | 22 m / 44 m | 2 | 1 h / 3 h | NiMh 7.2V / 0.6 Ah | | NiMh 7.2V / 1.2 Ah | | 10 VA |

DECENTRAL SUPPLY

| Sicuro24 Order code |  |  |  |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Surface ceiling mounting, suspension, chain or wire suspension (3-sided escape route lighting) ¹ | | | |
| 32024 | 22 m / 44 m | 2 | 4.3 W |

CENTRAL SUPPLY

| Sicuro230 Order code |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface ceiling mounting, suspension, chain or wire suspension (3-sided escape route lighting) ¹ | | | | |
| 31024 | 22 m / 44 m | 2 | 9.4 VA / 4.7 W | |

¹ For surface mounting and all suspended versions, please order required equipment separately

| Please order exit sign equipment separately | |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Order code | Description |
| VD 22 m | VD 44 m |
| F15330M | F15325M Exit sign film  |
| F15331M | F15326M Exit sign film  |
| F15332M | F15327M Exit sign film  |
| F15329M | F15328M Exit sign film  |

| Please order additional equipment separately | |
|----------------------------------------------|--------------------------------------|
| Order code | Description |
| F95210 | Adapter for suspension rod |
| F95600 | Suspension rod, rectangular, 250 mm |
| F95601 | Suspension rod, rectangular, 500 mm |
| F95400 | Suspension rod, round, 500 mm |
| F95406 | Adapter for chain or wire suspension |



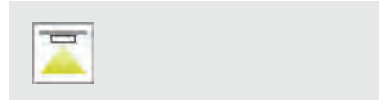
PLURALUCE

Flat design housing in sheet steel and Polycarbonate cover.

High-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), symmetrically emitted light distribution (illumination of surfaces with 0.5 lx) and 1-sided asymmetrically-emitted light distribution (illumination of safety device with 5 lx).

Versions for surface ceiling mounting

MOUNTING OPTIONS



TECHNICAL DATA

| | |
|-----------------|----------------------------------------------|
| Housing: | Sheet steel |
| Cover: | Polycarbonate, white (RAL 9010) ¹ |
| Lens: | Methacrylate, clear |

| | |
|-------------------------------------------------|----------|
| Service life $L_{80} B_{20}$: | 50.000 h |
| Color stability: | 3 SDCM |

¹ Cover in other colors on request



SELF-CONTAINED SUPPLY

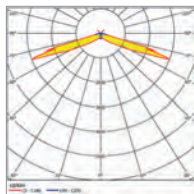
| | |
|------------------------------------------------------------|---------------------------------------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: LTO: -20 °C to +50 °C Classic: 0 °C to +40 °C |
| Specification: Maintained or non-maintained mode | Protection class: I |

DECENTRAL SUPPLY

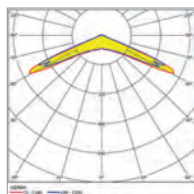
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 24 V +/- 20% DC | Protection class: III |

CENTRAL SUPPLY

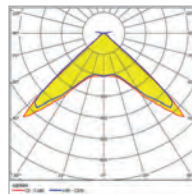
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 176 V–276 V | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 198 V–254 V/50 Hz | Protection class: I |



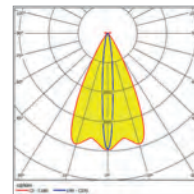
Asymmetric wide beam



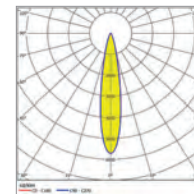
Symmetric wide beam to 3,5 m



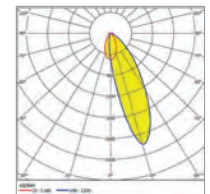
Symmetric wide beam to 7 m



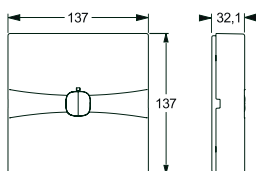
Asymmetric deep beam



Symmetric deep beam



One sided asymmetric



Surface ceiling mounting



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | Battery icon | S~ |
|------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------------|--------------|------------|------------------------|---------|
| Surface ceiling mounting suitable for escape route lighting | | | | | | | | |
| 37076 | 37078 | 37080 | 1 | 261 lm | 176 lm | 42 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface ceiling mounting suitable for area lighting with 2 changeable lenses | | | | | | | | |
| 37075 | 37077 | 37079 | 1 | 255 / 285 lm | 147 / 165 lm | 41 / 46 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

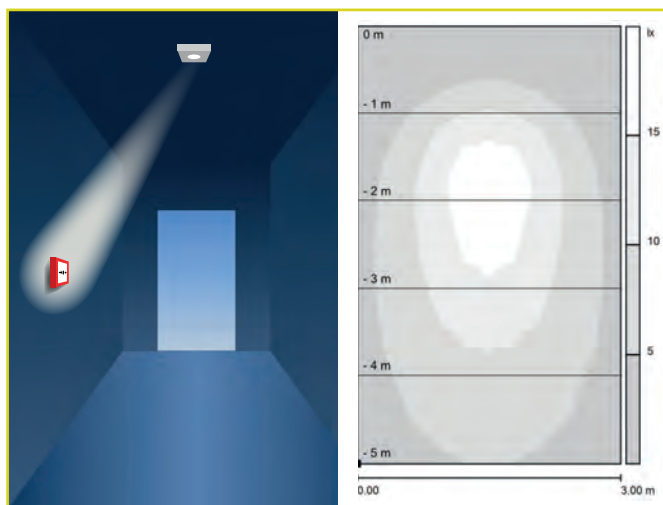
| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Battery icon Autotest | Battery icon Logica | S~ |
|------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|--------------------------|------------------------|------|
| Surface ceiling mounting suitable for escape route lighting | | | | | | | | |
| 16733 | 16735 | 16737 | 1 | 261 lm | 176 lm | NimH 7.2V / 1.2 Ah | NimH 7.2V / 1.2 Ah | 8 VA |
| Surface ceiling mounting suitable for area lighting with 2 changeable lenses | | | | | | | | |
| 16732 | 16734 | 16736 | 1 | 255 lm | 172 lm | NimH 7.2V / 1.2 Ah | NimH 7.2V / 1.2 Ah | 8 VA |

SICURO^{LED} DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|------------------------------------------------------------------------------|-----|--------------|-------|
| Surface ceiling mounting suitable for escape route lighting | | | |
| 32037 | 1 | 261 lm | 3.8 W |
| Surface ceiling mounting suitable for area lighting with 2 changeable lenses | | | |
| 32036 | 1 | 255 / 285 lm | 3.8 W |

SICURO^{LED} CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|------------------------------------------------------------------------------|-----|--------------|----------------|----|
| Surface ceiling mounting suitable for escape route lighting | | | | |
| 31037 | 1 | 255 / 285 lm | 8.3 VA / 4.1 W | |
| Surface ceiling mounting suitable for area lighting with 2 changeable lenses | | | | |
| 31036 | 1 | 261 lm | 8.3 VA / 4.1 W | |



Illumination of safety devices

Please order additional equipment separately

| Order code | Description |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| F95807 | Narrow beam lens for surface / recessed ceiling mounted luminaires (area lighting) for escape route lighting at mounting heights > 7.5 m |
| F95808 | Narrow beam lens for surface / recessed ceiling mounted luminaires (area lighting) for area lighting at mounting heights > 7.5 m |
| F95815 | Asymmetrical lens for surface / recessed ceiling mounted luminaires (area lighting) for illumination of the safety devices with 5 lx |
| 19346 | Diffusor lens |



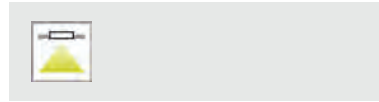
PLURALUCE

Flat design housing in sheet steel and Polycarbonate cover.

High-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), symmetrically emitted light distribution (illumination of surfaces with 0.5 lx) and 1-sided asymmetrically-emitted light distribution (illumination of safety device with 5 lx).

Versions for recessed ceiling mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9010)
Cover: Polycarbonate, white (RAL 9010)^{1,2}
Lens: Methacrylate, clear

Service life $L_{80} B_{20}$: 50.000 h
Color stability: 3 SDCM

¹ Cover in other colors on request

² Square cover for recessed ceiling mounting (RAL 9003) please order separately



SELF-CONTAINED SUPPLY

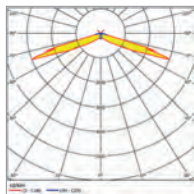
Mains supply: 198 V–254 V/50 Hz
Specification: Maintained or non-maintained mode
Ambient temperature: LTO: -20 °C to +50 °C
 Classic: 0 °C to +40 °C
Protection class: I

DECENTRAL SUPPLY

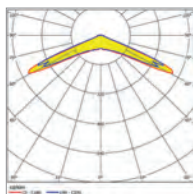
Battery supply: 24 V +/- 20% DC
Mains supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Protection class: III

CENTRAL SUPPLY

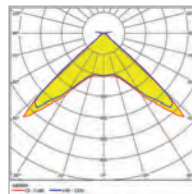
Battery supply: 176 V–276 V
Mains supply: 198 V–254 V/50 Hz
Ambient temperature: -20 °C to +40 °C
Protection class: I



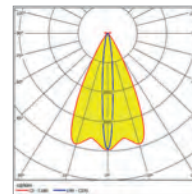
Asymmetric wide beam



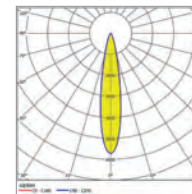
Symmetric wide beam to 3,5 m



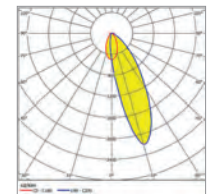
Symmetric wide beam to 7 m



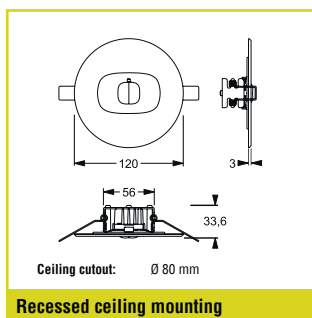
Asymmetric deep beam



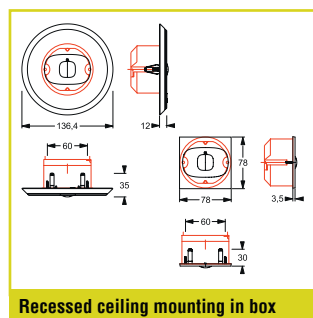
Symmetric deep beam



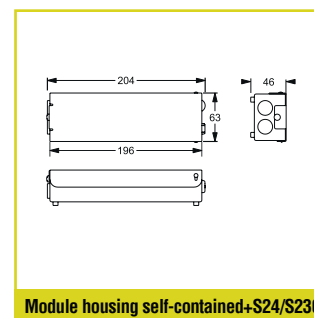
One sided asymmetric



Recessed ceiling mounting



Recessed ceiling mounting in box



Module housing self-contained+S24/S230



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | Autotest | Logica | S~ |
|-------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------------|--------------|------------|-----------------------|--------|---------|
| Recessed ceiling mounting for escape route lighting | | | | | | | | | |
| 37082 | 37084 | 37086 | 1 | 261 lm | 176 lm | 42 lm | 2x LTO 7.2 V / 0.5 Ah | | 4.85 VA |
| Recessed ceiling mounting suitable for area lighting with 2 changeable lenses | | | | | | | | | |
| 37081 | 37083 | 37085 | 1 | 255 / 285 lm | 147 / 165 lm | 41 / 46 lm | 2x LTO 7.2 V / 0.5 Ah | | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Autotest | Logica | S~ | |
|-------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------------|--------------|--------------------|--------------------|------|--|
| Recessed ceiling mounting for escape route lighting | | | | | | | | | |
| 16749 | 16751 | 16753 | 1 | 261 lm | 176 lm | NimH 7.2V / 1.2 Ah | NimH 7.2V / 1.2 Ah | 8 VA | |
| Recessed ceiling mounting suitable for area lighting with 2 changeable lenses | | | | | | | | | |
| 16748 | 16750 | 16752 | 1 | 255 / 285 lm | 172 / 192 lm | NimH 7.2V / 1.2 Ah | NimH 7.2V / 1.2 Ah | 8 VA | |

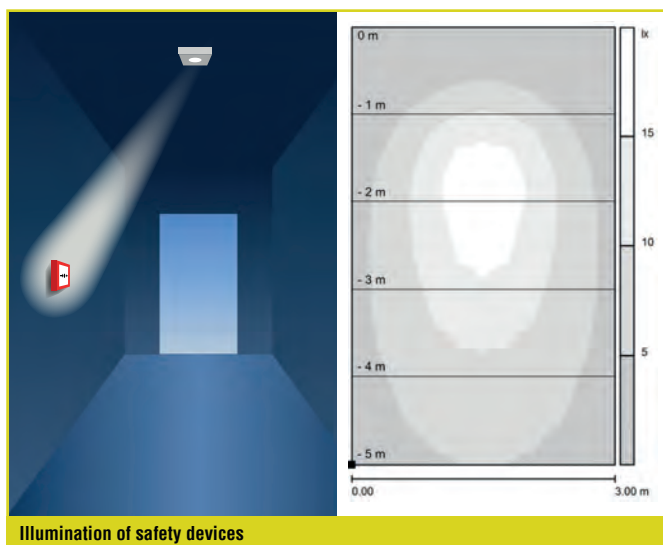
DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|-------------------------------------------------------------------------------|-----|--------------|-------|
| Recessed ceiling mounting for escape route lighting | | | |
| 32039 | 1 | 261 lm | 3.8 W |
| 32041 ¹ | 1 | 261 lm | 3.8 W |
| Recessed ceiling mounting suitable for area lighting with 2 changeable lenses | | | |
| 32038 | 1 | 255 / 285 lm | 3.8 W |
| 32040 ¹ | 1 | 255 / 285 lm | 3.8 W |

CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|-------------------------------------------------------------------------------|-----|--------------|----------------|----|
| Recessed ceiling mounting for escape route lighting | | | | |
| 31039 | 1 | 261 lm | 8.3 VA / 4.1 W | |
| Recessed ceiling mounting suitable for area lighting with 2 changeable lenses | | | | |
| 31038 | 1 | 255 / 285 lm | 8.3 VA / 4.1 W | |

¹ Version for recessed mounting in fire protection ceilings wire fire resistance class F30 or F90 according to DIN 4102-4. The required device approval approved by the DIBt, e.g. Kaiser-Elektro, article no. 9464-50, is not included



Illumination of safety devices

Please order additional equipment separately

| Order code | Description |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| F95807 | Narrow beam lens for surface / recessed ceiling mounted luminaires (area lighting) for escape route lighting at mounting heights > 7.5 m |
| F95808 | Narrow beam lens for surface / recessed ceiling mounted luminaires (area lighting) for area lighting at mounting heights > 7.5 m |
| F95815 | Asymmetrical lens for surface / recessed ceiling mounted luminaires (area lighting) for illumination of the safety devices with 5 lx |
| F95812 | Sheet steel square cover, white RAL 9010 (escape route lighting) |
| F95811 | Sheet steel square cover, white RAL 9010 (area lighting) |
| F95814 | Square cover in sheet steel for installation boxes (ds), white RAL 9010 (escape route lighting) |
| F95813 | Square cover in sheet steel installation boxes (ds), white RAL 9010 (area lighting) |
| F95804 | Stainless steel round cover (escape route lighting) |
| F95803 | Stainless steel round cover (area lighting) |

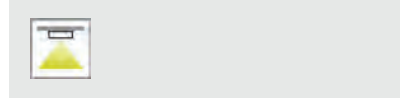


PLURALUCE65

Flat design housing and cover in stainless steel. High-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), or for symmetrically emitted light distribution (illumination of surfaces with 0.5 lx)

Versions for wall mounting or ceiling mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Stainless steel, V2A white (RAL 9003)
Stainless steel, V2A

Cover: Methacrylate, klar

Lens: Methacrylate, klar

Service life $L_{80/20}$: 50.000 h

Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Specification: Maintained or non-maintained mode

Mains supply: 198 V–254 V/50 Hz

Ambient temperature: LTO: -20 °C to +50 °C
Classic: 0 °C to +40 °C

Protection class: I

DECENTRAL SUPPLY

Battery supply: 24 V +/- 20% DC

Mains supply: 24 V +/- 20% DC

Ambient temperature: -20 °C to +40 °C

Protection class: III

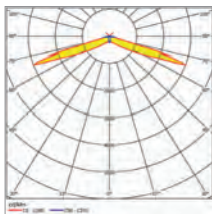
CENTRAL SUPPLY

Battery supply: 176V–276V

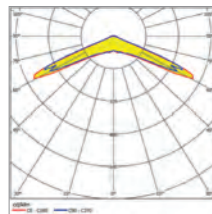
Mains supply: 198V–254V/50Hz

Ambient temperature: -20 °C to +40 °C

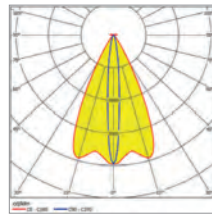
Protection class: I



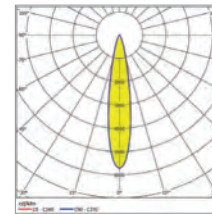
Asymmetric wide beam



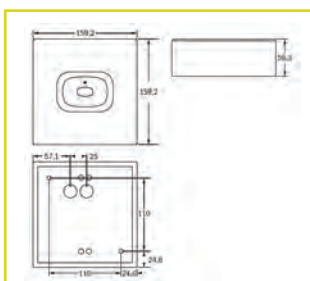
Symmetric wide beam



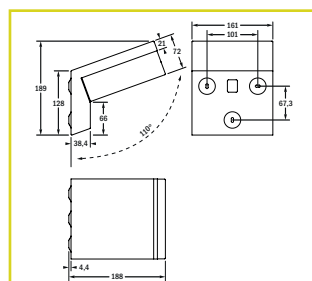
Asymmetric deep beam



Symmetric deep beam



Surface ceiling mounting



Bracket suspension



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | | |
|-----------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|-------|------------------------|---------|
| Wall mounted ¹ / ceiling mounted suitable for escape route lighting, stainless steel white | | | | | | | | |
| 37186 | 37187 | 37188 | 1 | 238 lm | 137 lm | 38 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Wall mounted ¹ / ceiling mounted suitable for escape route lighting, stainless steel, V2A | | | | | | | | |
| 37192 | 37193 | 37194 | 1 | 238 lm | 137 lm | 38 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface wall mounting ¹ / surface ceiling mounting suitable for area lighting, stainless steel white | | | | | | | | |
| 37183 | 37184 | 37185 | 1 | 240 lm | 139 lm | 39 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Surface wall mounting ¹ / surface ceiling mounting suitable for area lighting, stainless steel, V2A | | | | | | | | |
| 37189 | 37190 | 37191 | 1 | 240 lm | 139 lm | 39 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | | Autotest | Logica | |
|-----------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|--------------------|--------------------|--------|------|
| Wall mounted ¹ / ceiling mounted suitable for escape route lighting, stainless steel white | | | | | | | | | |
| 36090 | 36091 | 36092 | 1 | 238 lm | 160 lm | NiMH 7,2V / 1,2 Ah | NiMH 7,2V / 1,2 Ah | | 8 VA |
| Wall mounted ¹ / ceiling mounted suitable for escape route lighting, stainless steel, V2A | | | | | | | | | |
| 36096 | 36097 | 36098 | 1 | 238 lm | 160 lm | NiMH 7,2V / 1,2 Ah | NiMH 7,2V / 1,2 Ah | | 8 VA |
| Surface wall mounting ¹ / surface ceiling mounting suitable for area lighting, stainless steel white | | | | | | | | | |
| 36087 | 36088 | 36089 | 1 | 240 lm | 162 lm | NiMH 7,2V / 1,2 Ah | NiMH 7,2V / 1,2 Ah | | 8 VA |
| Surface wall mounting ¹ / surface ceiling mounting suitable for area lighting, stainless steel, V2A | | | | | | | | | |
| 36093 | 36094 | 36095 | 1 | 240 lm | 162 lm | NiMH 7,2V / 1,2 Ah | NiMH 7,2V / 1,2 Ah | | 8 VA |

DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|-----------------------------------------------------------------------------------------------------------------|-----|--------|-------|
| Wall mounted ¹ / ceiling mounted suitable for escape route lighting, stainless steel white | | | |
| 32044 | 1 | 238 lm | 3.8 W |
| Version in stainless steel, V2A | | | |
| 32046 | 1 | 238 lm | 3.8 W |
| Version deep beam, stainless steel, V2A white | | | |
| 32048 | 1 | 225 lm | 3.8 W |
| Version deep beam, stainless steel, V2A | | | |
| 32050 | 1 | 225 lm | 3.8 W |
| Surface wall mounting ¹ / surface ceiling mounting suitable for area lighting, stainless steel white | | | |
| 32043 | 1 | 240 lm | 3.8 W |
| Version in stainless steel, V2A | | | |
| 32045 | 1 | 240 lm | 3.8 W |
| Version deep beam, stainless steel, V2A white | | | |
| 32047 | 1 | 270 lm | 3.8 W |
| Version deep beam, stainless steel, V2A | | | |
| 32049 | 1 | 270 lm | 3.8 W |

CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|-----------------------------------------------------------------------------------------------------------------|-----|--------|----------------|----|
| Wall mounted ¹ / ceiling mounted suitable for escape route lighting, stainless steel white | | | | |
| 31042 | 1 | 238 lm | 8.3 VA / 4.1 W | |
| Version in stainless steel, V2A | | | | |
| 31044 | 1 | 238 lm | 8.3 VA / 4.1 W | |
| Version deep beam, stainless steel, V2A white | | | | |
| 31046 | 1 | 225 lm | 8,3 VA / 4,1 W | |
| Version deep beam, stainless steel, V2A | | | | |
| 31048 | 1 | 225 lm | 8.3 VA / 4.1 W | |
| Surface wall mounting ¹ / surface ceiling mounting suitable for area lighting, stainless steel white | | | | |
| 31041 | 1 | 240 lm | 8.3 VA / 4.1 W | |
| Version in stainless steel, V2A | | | | |
| 31043 | 1 | 240 lm | 8.3 VA / 4.1 W | |
| Version deep beam, stainless steel, V2A white | | | | |
| 31045 | 1 | 270 lm | 8.3 VA / 4.1 W | |
| Version deep beam, stainless steel, V2A | | | | |
| 31047 | 1 | 270 lm | 8.3 VA / 4.1 W | |

¹ For surface wall mounting please order additional equipment separately

| Order code | Description | Order code | Description |
|----------------|-------------------------------|-------------|-------------------------|
| F95806-RAL9003 | Bracket suspension, V2A white | F95806-INOX | Bracket suspension, V2A |

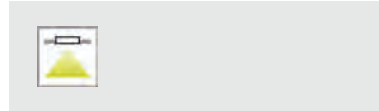


PLURALUCE65

High protection. Flat design housing and cover in stainless steel. High-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), or for symmetrically emitted light distribution (illumination of surfaces with 0.5 lx).

Versions for recessed ceiling mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Stainless steel, white (RAL 9003)
Stainless steel, V2A

Cover: Methacrylate, clear

Lens: Methacrylate, clear

Service life $L_{80/B_{20}}$: 50.000 h

Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Mains supply: 198V–254V/50Hz

Specification: Maintained or non-maintained mode

Ambient temperature: LTO: -20 °C to +50 °C
Classic: 0 °C to +40 °C

Protection class: I

DECENTRAL SUPPLY

Battery supply: 24 V +/- 20% DC

Mains supply: 24 V +/- 20% DC

Ambient temperature: -20 °C to +40 °C

Protection class: III

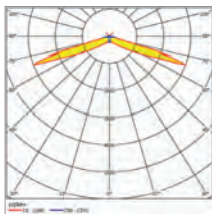
CENTRAL SUPPLY

Battery supply: 176 V–276 V

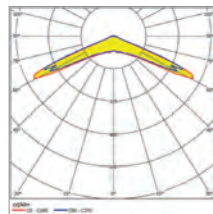
Mains supply: 198 V–254 V/50 Hz

Ambient temperature: -20 °C to +40 °C

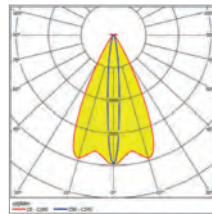
Protection class: I



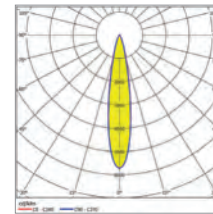
Asymmetric wide beam



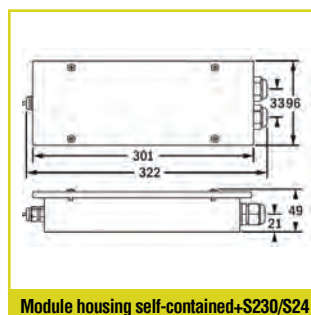
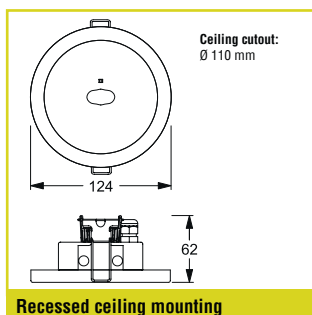
Symmetric wide beam to 3.5 m



Asymmetric deep beam



Symmetric deep beam





SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | | S~ |
|------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|-------|-----------------------|---------|
| Recessed ceiling mounting suitable for escape route lighting, stainless steel, V2A white | | | | | | | | |
| 37210 | 37211 | 37212 | 1 | 238 lm | 137 lm | 38 lm | 2 x LTO 7.2V / 0.5 Ah | 4.85 VA |
| Recessed ceiling mounting suitable for escape route lighting, stainless steel V2A | | | | | | | | |
| 37216 | 37217 | 37218 | 1 | 238 lm | 137 lm | 38 lm | 2 x LTO 7.2V / 0.5 Ah | 4.85 VA |
| Recessed ceiling mounting suitable for area lighting, stainless steel, V2A white | | | | | | | | |
| 37207 | 37208 | 37209 | 1 | 240 lm | 139 lm | 39 lm | 2 x LTO 7.2V / 0.5 Ah | 4.85 VA |
| Recessed ceiling mounting suitable for area lighting, stainless steel V2A | | | | | | | | |
| 37213 | 37214 | 37215 | 1 | 240 lm | 139 lm | 39 lm | 2 x LTO 7.2V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Autotest | Logica | S~ |
|------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|--------------------|--------------------|------|
| Recessed ceiling mounting suitable for escape route lighting, stainless steel, V2A white | | | | | | | | |
| 36114 | 36115 | 36116 | 1 | 238 lm | 160 lm | NiMH 7.2V / 1.2 Ah | NiMH 7.2V / 1.2 Ah | 8 VA |
| Recessed ceiling mounting suitable for escape route lighting, stainless steel V2A | | | | | | | | |
| 36120 | 36121 | 36122 | 1 | 238 lm | 160 lm | NiMH 7.2V / 1.2 Ah | NiMH 7.2V / 1.2 Ah | 8 VA |
| Recessed ceiling mounting suitable for area lighting, stainless steel, V2A white | | | | | | | | |
| 36111 | 36112 | 36113 | 1 | 240 lm | 162 lm | NiMH 7.2V / 1.2 Ah | NiMH 7.2V / 1.2 Ah | 8 VA |
| Recessed ceiling mounting suitable for area lighting, stainless steel V2A | | | | | | | | |
| 36117 | 36118 | 36119 | 1 | 240 lm | 162 lm | NiMH 7.2V / 1.2 Ah | NiMH 7.2V / 1.2 Ah | 8 VA |

DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|------------------------------------------------------------------------------------------|-----|--------|-------|
| Recessed ceiling mounting suitable for escape route lighting, stainless steel, V2A white | | | |
| 32052 | 1 | 238 lm | 3.8 W |
| Recessed ceiling mounting suitable for escape route lighting, stainless steel V2A | | | |
| 32054 | 1 | 238 lm | 3.8 W |
| Recessed ceiling mounting suitable for area lighting, stainless steel, V2A white | | | |
| 32051 | 1 | 240 lm | 3.8 W |
| Recessed ceiling mounting suitable for area lighting, stainless steel V2A | | | |
| 32053 | 1 | 240 lm | 3.8 W |

CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|------------------------------------------------------------------------------------------|-----|--------|---------------|----|
| Recessed ceiling mounting suitable for escape route lighting, stainless steel, V2A white | | | | |
| 31050 | 1 | 238 lm | 8.3VA / 4.1 W | |
| Recessed ceiling mounting suitable for escape route lighting, stainless steel V2A | | | | |
| 31052 | 1 | 238 lm | 8.3VA / 4.1 W | |
| Recessed ceiling mounting suitable for area lighting, stainless steel, V2A white | | | | |
| 31049 | 1 | 240 lm | 8.3VA / 4.1 W | |
| Recessed ceiling mounting suitable for area lighting, stainless steel V2A | | | | |
| 31051 | 1 | 240 lm | 8.3VA / 4.1 W | |

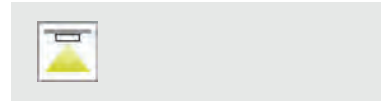


ALU-K

Housing made of flat aluminium profiles with angular contours and a clear insert. High-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), or for symmetrically emitted light distribution (illumination of surfaces with 0.5 lx)

Versions for surface ceiling mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Aluminium, anodized
Display pane: Methacrylate, clear
Reflector: Aluminium, specular

Service life $L_{80/B_{20}}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Mains supply:
198 V–254 V/50 Hz

Specification:
Maintained or non-maintained mode

Ambient temperature:
LTO: -20 °C to +50 °C
Classic: 0 °C to +40 °C
Protection class:
I

DECENTRAL SUPPLY

Battery supply:
24V +/- 20% DC

Mains supply:
24V +/- 20% DC

Ambient temperature:
-20 °C to +40 °C

Protection class:
III

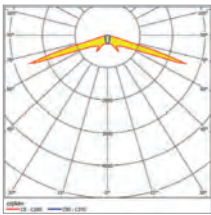
CENTRAL SUPPLY

Battery supply:
176 V–276 V

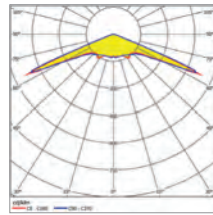
Mains supply:
198V–254V/50Hz

Ambient temperature:
-20 °C to +40 °C

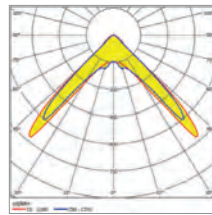
Protection class:
I



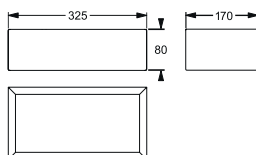
Asymmetric wide beam



Symmetric wide beam to 3.5 m



Symmetric wide beam to 7 m



Surface ceiling mounting



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | Battery icon | S~ |
|--------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|------------------------------------------------|------------------------------------------------|---------------------------------------------|------------------------|---------|
| Surface ceiling mounting suitable for escape route lighting and area lighting with 2 changeable lenses | | | | | | | | |
| 37051 | 37052 | 37053 | 1 | Escape route 232 lm Area 234 / 238 lm | Escape route 134 lm Area 135 / 137 lm | Escape route 37 lm Area 38 / 38 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Battery icon Autotest | Battery icon Logica | S~ |
|--------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|------------------------------------------------|------------------------------------------------|--------------------------|------------------------|------|
| Surface ceiling mounting suitable for escape route lighting and area lighting with 2 changeable lenses | | | | | | | | |
| 36051 | 36052 | 36053 | 1 | Escape route 232 lm Area 234 / 238 lm | Escape route 156 lm Area 158 / 160 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 8 VA |

DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|--------------------------------------------------------------------------------------------------------|-----|------------------------------------------------|-------|
| Surface ceiling mounting suitable for escape route lighting and area lighting with 2 changeable lenses | | | |
| 32017 | 1 | Escape route 232 lm Area 234 / 238 lm | 3.8 W |

CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|--------------------------------------------------------------------------------------------------------|-----|------------------------------------------------|---------------|----|
| Surface ceiling mounting suitable for escape route lighting and area lighting with 2 changeable lenses | | | | |
| 31017 | 1 | Escape route 232 lm Area 234 / 238 lm | 8.3VA / 4.1 W | |

Please order additional equipment separately

| Order code | Description |
|------------|-------------|
| F95724 | Wire guard |

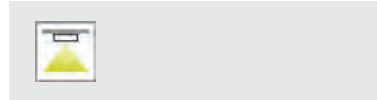


KUBUS

Housing made of flat sheet steel profiles with angular contours and a clear insert. High-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), or for symmetrically emitted light distribution (illumination of surfaces with 0.5 lx)

Versions for surface ceiling mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9003)
Display pane: Methacrylate, clear
Reflector: Aluminium, specular

Service life $L_{50}B_{20}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Mains supply:
198 V–254 V / 50 Hz

Specification:
Maintained or non-maintained mode

Ambient temperature:
LTO: -20 °C to +50 °C
Classic: 0 °C to +40 °C

Protection class:
I

DECENTRAL SUPPLY

Battery supply:
24 V +/- 20% DC

Mains supply:
24 V +/- 20% DC

Ambient temperature:
-20 °C to +40 °C

Protection class:
III

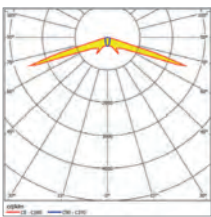
CENTRAL SUPPLY

Battery supply:
176 V–276 V

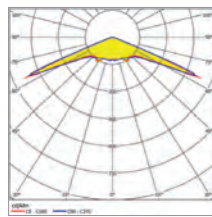
Mains supply:
198 V–254 V / 50 Hz

Ambient temperature:
-20 °C to +40 °C

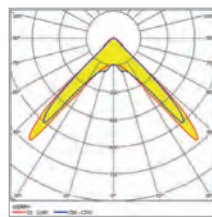
Protection class:
I



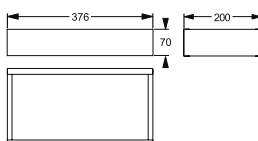
Asymmetric wide beam



Symmetric wide beam to 3.5 m



Symmetric wide beam to 7 m



Surface ceiling mounting



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | | S~ |
|------------------------|----------------------|-------------------------|-----|-------|-------|-------|--|----|
|------------------------|----------------------|-------------------------|-----|-------|-------|-------|--|----|

Surface ceiling mounting suitable for escape route lighting and area lighting with 2 changeable lenses

| | | | | | | | | |
|-------|-------|-------|---|------------------------|------------------------|-----------------------|------------------------|---------|
| 37030 | 37031 | 37032 | 1 | Escape route 232 lm | Escape route 134 lm | Escape route 37 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| | | | | Area 234 / 238 lm | Area 135 / 137 lm | Area 38 / 38 lm | | |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Autotest | Logica | S~ |
|------------------------|----------------------|-------------------------|-----|-------|-------|----------|--------|----|
|------------------------|----------------------|-------------------------|-----|-------|-------|----------|--------|----|

Surface ceiling mounting suitable for escape route lighting and area lighting with 2 changeable lenses

| | | | | | | | | |
|-------|-------|-------|---|------------------------|------------------------|--------------------|--------------------|------|
| 36030 | 36031 | 36032 | 1 | Escape route 232 lm | Escape route 156 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 8 VA |
| | | | | Area 234 / 238 lm | Area 158 / 160 lm | | | |

DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|------------------------|-----|---|----|
|------------------------|-----|---|----|

Surface ceiling mounting suitable for escape route lighting and area lighting with 2 changeable lenses

| | | | |
|-------|---|------------------------|-------|
| 32010 | 1 | Escape route 232 lm | 3.8 W |
| | | Area 234 / 238 lm | |

CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|-------------------------|-----|---|----|----|
|-------------------------|-----|---|----|----|

Surface ceiling mounting suitable for escape route lighting and area lighting with 2 changeable lenses

| | | | |
|-------|---|------------------------|---------------|
| 31010 | 1 | Escape route 232 lm | 8.3VA / 4.1 W |
| | | Area 234 / 238 lm | |

Please order additional equipment separately

| Order code | Description |
|------------|-------------|
| F95032K | Wire guard |

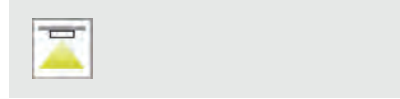


KUBUS65

Housing made of flat sheet steel profiles with angular contours and a clear insert. Lighting control is provided by a aluminium reflector. Lighting control is provided by a highly reflective aluminium reflector. Version in stainless steel is just suitable for indoor solutions.

Version for surface ceiling mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9003)
Stainless steel, V2A

Cover: Methacrylate, clear

Reflector: Aluminium, specular

Service life $L_{80B_{20}}$: 50.000 h

Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Mains supply: 198 V–254 V / 50 Hz

Specification: Maintained or non-maintained mode

Ambient temperature: LTO: -20 °C to +50 °C
Classic: 0 °C to +40 °C

Protection class: I

DECENTRAL SUPPLY

Battery supply: 24V +/- 20% DC

Mains supply: 24V +/- 20% DC

Ambient temperature: -20 °C to +40 °C

Protection class: III

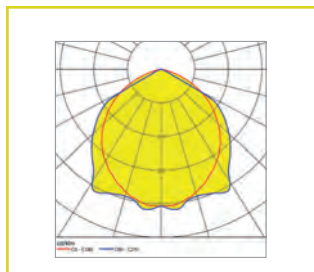
CENTRAL SUPPLY

Battery supply: 176 V–276 V

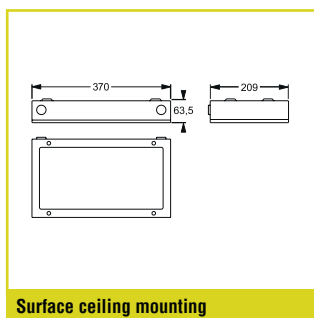
Mains supply: 198V–254V/50Hz

Ambient temperature: -20 °C to +40 °C

Protection class: I



Polar diagram



Surface ceiling mounting



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | | S~ |
|-------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|-------|------------------------|---------|
| Surface ceiling mounting suitable for escape route lighting | | | | | | | | |
| 37060 | 37061 | 37062 | 48 | 336 lm | 168 lm | 46 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| Version in V2A | | | | | | | | |
| 37066 | 37067 | 37068 | 48 | 336 lm | 168 lm | 46 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Autotest | Logica | S~ |
|-------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|--------------------|--------------------|-------|
| Surface ceiling mounting suitable for escape route lighting | | | | | | | | |
| 36060 | 36061 | 36062 | 48 | 336 lm | 227 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 10 VA |
| Version in V2A | | | | | | | | |
| 36072 | 36073 | 36074 | 48 | 336 lm | 227 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 10 VA |


 DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|-------------------------------------------------------------|-----|--------|-------|
| Surface ceiling mounting suitable for escape route lighting | | | |
| 32020 | 48 | 350 lm | 4.3 W |
| Version in V2A | | | |
| 32022 | 48 | 350 lm | 4.3 W |


 CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|-------------------------------------------------------------|-----|--------|----------------|----|
| Surface ceiling mounting suitable for escape route lighting | | | | |
| 31020 | 48 | 350 lm | 9.4 VA / 4.7 W | |
| Version in V2A | | | | |
| 31022 | 48 | 350 lm | 9.4 VA / 4.7 W | |

Please order additional equipment separately

| Order code | Description |
|------------|-------------|
| F95607 | Wire guard |

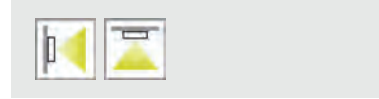


ACCIAIO

High protection. The housing is made of zinc-coated sheet steel, the caps are made of plastic and the insert is made of tempered glass. The caps and the insert are securely fastened to the housing. Lighting control is provided by a highly reflective aluminium reflector. Single or double-sided escape route signage is provided thanks to exchangeable display inserts. Explosion protection for zone 2 (II 3G Ex nA IIB T4) and zone 22 (II 3D Ex tD A22 T100). Extremely resistant to both mechanical and chemical stress.

Versions for wall mounting and ceiling mounting with swivelling mount or for chain/cable mounting

MOUNTING OPTIONS



TECHNICAL DATA

| | | | |
|----------------------|------------------------------------------------------------|------------------------------------------------|----------|
| Housing: | Sheet steel, galvanized, grey (RAL 7040) | Service life $L_{80B_{20}}$: | 50.000 h |
| Caps: | Polycarbonate / polybutyleneterephthalate, grey (RAL 7040) | Color stability: | 3 SDCM |
| Display pane: | Tempered glass, structured | | |
| Reflector: | Aluminium, specular | | |



SELF-CONTAINED SUPPLY

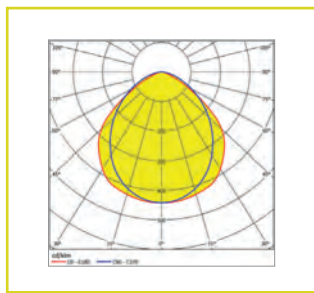
| | |
|------------------------------------------------------------|---------------------------------------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: LTO: -40 °C to +40 °C Classic: 0 °C to +40 °C |
| Specification: Maintained or non-maintained mode | Protection class: I |

DECENTRAL SUPPLY

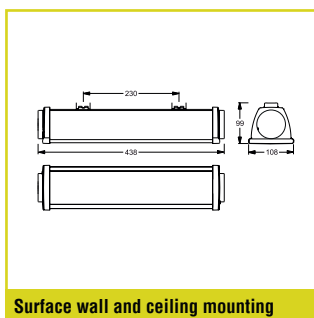
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 24 V +/- 20% DC | Protection class: III |

CENTRAL SUPPLY

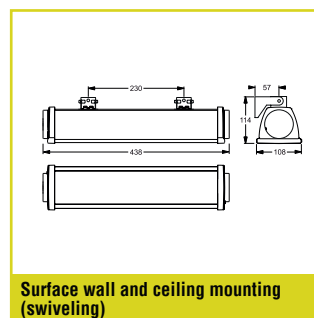
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 176 V–276 V | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 198 V–254 V/50 Hz | Protection class: I |



Polar diagram



Surface wall and ceiling mounting



Surface wall and ceiling mounting (swiveling)



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | Battery icon | S~ |
|------------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|-------|------------------------|---------|
| Surface wall and ceiling mounting, chain/wire suspension for escape route lighting | | | | | | | | |
| 37090 | 37091 | 37092 | 32 | 400 lm | 200 lm | 55 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Battery icon Autotest | Battery icon Logica | S~ |
|------------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|--------------------------|------------------------|--------|
| Surface wall and ceiling mounting, chain/wire suspension for escape route lighting | | | | | | | | |
| 15030 | 15030 | 15031 | 32 | 400 lm | 200 lm | NiMH 7.2V / 1.2 Ah | NiMH 7.2V / 1.2 Ah | 10 VA |
| 15032 ¹ | 15032 ¹ | 15033 ¹ | 32 | 800 lm | 270 lm | NiMH 7.2V / 1.7 Ah | NiMH 7.2V / 1.7 Ah | 1.7 VA |



DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|------------------------------------------------------------------------------------|-----|----------|-------------------|
| Surface wall and ceiling mounting, chain/wire suspension for escape route lighting | | | |
| 32092 ¹ | 32 | 800 lm | 8 W ² |
| | | 1.600 lm | 16 W ² |



CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|------------------------------------------------------------------------------------|-----|----------|-----------------------------|----|
| Surface wall and ceiling mounting, chain/wire suspension for escape route lighting | | | | |
| 31053 | 32 | 1.600 lm | 25 VA / 22.8 W ² | |

¹ Only for non maintained mode² Programmable via decentral supply

Included in standard delivery

| Order code | Description |
|------------|-------------------------------------|
| 20122 | Wall and ceiling bracket, swiveling |



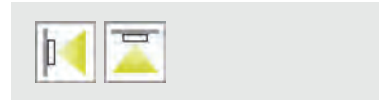
ACCIAIO HIGH

High protection with high impact strength. Housing made of steel with die-cast aluminium caps. High-power LED with lighting control through special lenses for asymmetrically-emitted light distribution at extremely high luminaire intervals of > 100 m at heights of 2.5 to 20 m, e.g. in tunnels or hangars (illumination of paths with 1 lx).

Extremely resistant to both mechanical and chemical stress with wall bracket, swiveling

Version for wall mounting or ceiling mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Sheet steel, grey (RAL 7035)
Caps: Aluminium, grey (RAL 7035)
Lens: Methacrylate

Service life $L_{50/B_{20}}$: 50.000 h
Color stability: 3 SDCM



DECENTRAL SUPPLY

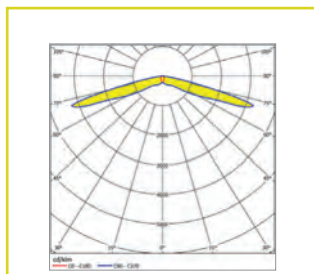
Battery supply:
24 V +/- 20% DC
Mains supply:
24 V +/- 20% DC

Ambient temperature:
-20 °C to +40 °C
Protection class:
I / III

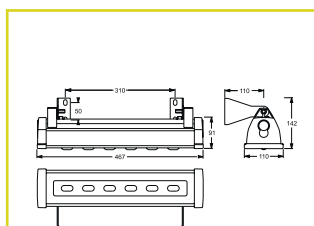
CENTRAL SUPPLY

Battery supply:
176 V–276 V
Mains supply:
198V–254V/50Hz

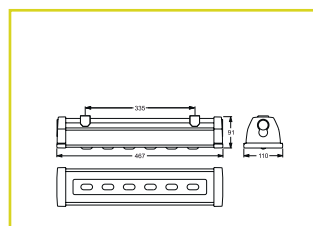
Ambient temperature:
-20 °C to +40 °C
Protection class:
I



Polar diagram






Surface wall mounting







Surface ceiling mounting


DECENTRAL SUPPLY

| Sicuro24 Order code | LED  | Φ  | P=  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Surface wall and ceiling mounting, chain/wire suspension for escape route lighting | | | |
| 32084 | 6 | 750 lm 1.500 lm | 8 W / 16 W ¹ |

¹ Programmable via decentral supply


CENTRAL SUPPLY

| Sicuro230 Order code | LED  | Φ  | S~  | P=  |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Surface wall and ceiling mounting, chain/wire suspension for escape route lighting | | | | |
| 31114 | 6 | 2.250 lm | 26 VA / 23.5 W | |
| Surface wall and ceiling mounting, chain/wire suspension for escape route lighting, EVG | | | | |
| 31115 | 6 | 2.250 lm | 25.5 VA / 22 W | |

Included in standard delivery

| Order code | Description |
|--------------|------------------------------------------------|
| 15015 | Wall bracket, swiveling (+/- 90°) ¹ |

¹ 1 wall bracket per luminaire necessary

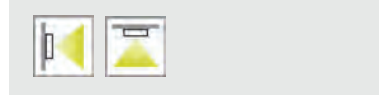


FORMULA65

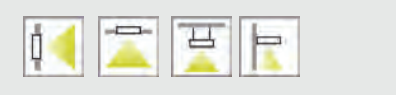
High protection. Housing with convex light-emitting surface and clear cover with click fasteners. Lighting control is provided by a plastic reflector. The Extreme version comes with a higher case.

Versions for surface wall mounting and surface ceiling mounting or with additional equipment for recessed wall mounting, recessed ceiling mounting and wire or rod suspension mounting

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Polycarbonate, white (RAL 9003)
Cover: Polycarbonate, clear
Reflector: Polycarbonate, white

Service life $L_{80, B_{20}}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

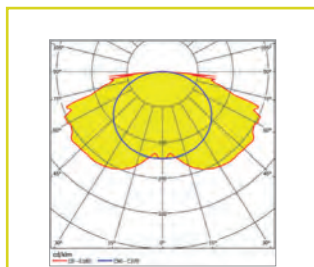
Mains supply: 198 V–254 V/50 Hz
Specification: Maintained or non-maintained mode
Ambient temperature: LTO: -20 °C to +50 °C
 Classic: 0 °C to +40 °C
Protection class: II

DECENTRAL SUPPLY

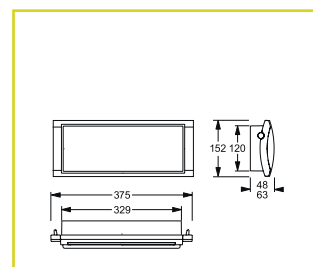
Battery supply: 24 V +/- 20% DC
Mains supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Protection class: III

CENTRAL SUPPLY

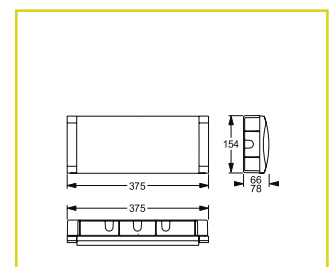
Battery supply: 176 V–276 V
Mains supply: 198V–254V/50Hz
Ambient temperature: -20 °C to +40 °C
Protection class: II



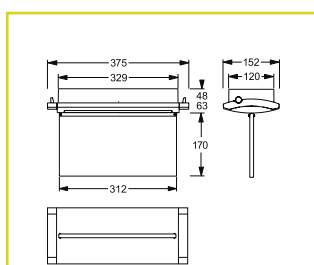
Polar diagram



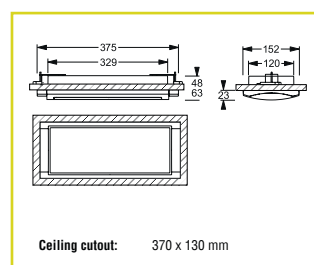
Surface wall mounting



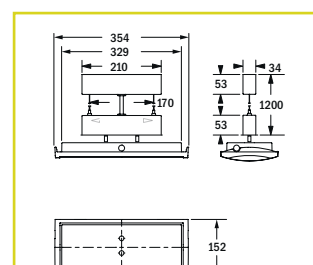
Recessed wall mounting



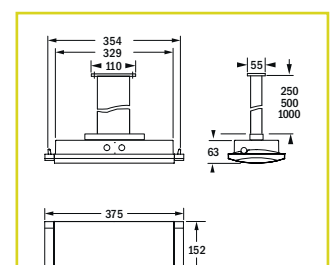
Surface ceiling mounting



Recessed ceiling mounting



Suspension wire



Suspension rod, rectangular



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | Battery icon | S~ |
|-------------------------------------------------------------------------------------------------|------------------------------|------------------------------|-----|--------|--------|--------|------------------------|-------|
| Surface or recessed wall or ceiling mounting, suspension for escape route lighting ¹ | | | | | | | | |
| 19296 | 19296+15036 ² | 19296+15037 ² | 22 | 800 lm | | | 2 x LTO 4.8 V / 1.2 Ah | 13 VA |
| 19296-3 h | 19296-3 h+15036 ² | 19296-3 h+15037 ² | 22 | | 280 lm | | 2 x LTO 4.8 V / 1.2 Ah | 13 VA |
| 19296-8 h | 19296-8 h+15036 ² | 19296-8 h+15037 ² | 22 | | | 115 lm | 2 x LTO 4.8 V / 1.2 Ah | 13 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Autotest Battery icon | Logica Battery icon | S~ |
|-------------------------------------------------------------------------------------------------|---------------------------|---------------------------|-----|--------|--------|-----------------------|---------------------|------|
| Surface or recessed wall or ceiling mounting, suspension for escape route lighting ¹ | | | | | | | | |
| 19270 + RA03 | 19270 + RA03 ³ | 19276 + RA03 ³ | 22 | 800 lm | 270 lm | NiMH 3.2V / 1.7 Ah | NiMH 3.2V / 1.7 Ah | 8 VA |

DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|------------------------------------------------------------------------------------------------------|-----|--------|-------|
| Surface or recessed wall or ceiling mounting for escape route lighting, Extreme version ¹ | | | |
| 32094 | 32 | 400 lm | 3.8 W |

CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|------------------------------------------------------------------------------------------------------|-----|--------|----------------|----|
| Surface or recessed wall or ceiling mounting for escape route lighting, Extreme version ¹ | | | | |
| 31124 | 32 | 400 lm | 8.3 VA / 4.1 W | |

¹ For recessed wall / ceiling mounting or suspension or bracket mounting please order required equipment separately

² Logica module (15036) and Logica FM module (15037) please order separately

³ Additional battery NiMH (RA03) please order separately

Please order additional equipment separately

| Order code | Description |
|------------|---------------------------------------------------|
| F95067 | Adaptor for suspension rod |
| F95943 | Adapter for suspension mounting |
| F95961 | Adapter for suspension mounting (Extreme version) |
| 19045 | Bracket suspension |
| F95600 | Suspension rod, rectangular, 250 mm |
| F95601 | Suspension rod, rectangular, 500 mm |
| F95602 | Suspension rod, rectangular, 1.000 mm |
| F95942 | Cover for bracket suspension |
| 19040 | Housing for walls |
| 19048 | Housing For walls (Extreme Version) |
| 19041 | Box for recessed wall mounting |
| 19049 | Box for recessed wall mounting (Extreme Version) |
| 12194 | Wire guard |
| 15036 | Logica module |
| 15037 | Logica FM module |
| RA03 | Additional battery NiMH 3.6 V / 1.7 Ah |



LOGICA

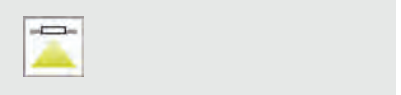
Housing has a compact design with planar light-emitting surface and a clear insert. Lighting control is provided by a plastic reflector.

Versions for surface wall mounting and surface ceiling mounting or with additional equipment for recessed wall mounting and recessed ceiling mounting

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

| | |
|----------------------------|--------------------------------------------------------------------------------------------|
| Housing: | Polycarbonate, grey (RAL 7035) |
| Cover: | Polycarbonate, clear |
| Reflector: | Polycarbonate, specular |
| Type of protection: | IP65 (surface and recessed wall mounting), IP40 (surface and recessed ceiling mounting) |

| | |
|------------------------------------------------|----------|
| Service life $L_{80B_{20}}$: | 50.000 h |
| Color stability: | 3 SDCM |



SELF-CONTAINED SUPPLY

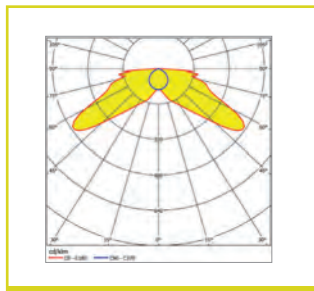
| | |
|------------------------------------------------------------|-----------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: 0 °C to +40 °C |
| Specification: Maintained or non-maintained mode | Protection class: II |

DECENTRAL SUPPLY

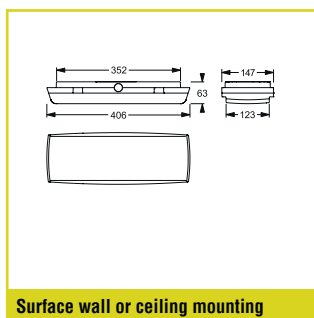
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 24 V +/- 20% DC | Protection class: II / III |

CENTRAL SUPPLY

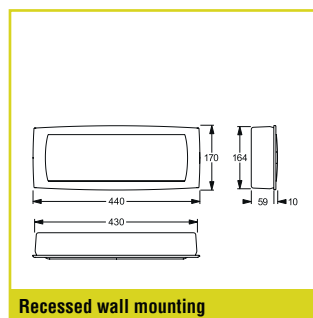
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 176 V–276 V | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 198 V–254 V/50 Hz | Protection class: II |



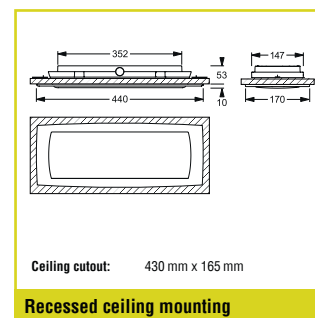
Polar diagram



Surface wall or ceiling mounting









Recessed wall mounting






Ceiling cutout: 430 mm x 165 mm

Recessed ceiling mounting





CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code |  |  1 h |  3 h |  Autotest |  Logica |  |
|----------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface wall or ceiling mounting, recessed ceiling mounting for escape route lighting ¹ | | | | | | | | |
| 12187S | 12187S | 12187FMS | 30 | 1.500 lm | 700 lm | NiMH 7.2V / 4 Ah | NiMH 7.2V / 4 Ah | 15 VA |

DECENTRAL SUPPLY

| Sicuro24 Order code |  |  |  |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Surface wall or ceiling mounting, recessed ceiling mounting for escape route lighting ¹ | | | |
| 32089 | 30 | 600 lm | 4.3 W |

CENTRAL SUPPLY

| Sicuro230 Order code |  |  |  |  |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Surface wall or ceiling mounting, recessed ceiling mounting for escape route lighting ¹ | | | | |
| 31099 | 30 | 900 lm | 12 VA / 10.4 W | |

¹ For recessed wall and ceiling mounting please and suspension please order additional equipment separately

| Please order additional equipment separately | |
|----------------------------------------------|-----------------------------------|
| Order code | Description |
| 12193 | Kit for recessed ceiling mounting |
| 12194 | Wire guard |
| 12198 | Kit for recessed wall mounting |

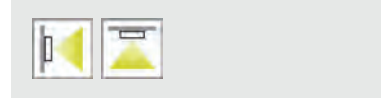


AESTETICA

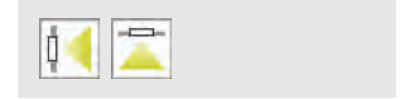
Housing has a compact design with planar light-emitting surface and a clear insert. Lighting control is provided by a plastic reflector.

Versions for surface wall mounting and surface ceiling mounting or with additional equipment for recessed wall mounting and recessed ceiling mounting

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Polycarbonate, white (RAL 9003)
Cover: Polycarbonate, clear
Reflector: Polycarbonate, white

Service life $L_{80}B_{20}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

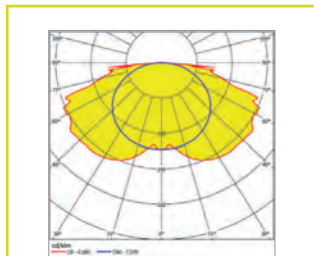
Mains supply: 198 V–254 V/50 Hz
Specification: Maintained or non-maintained mode
Ambient temperature: 0 °C to +40 °C
Protection class: II

DECENTRAL SUPPLY

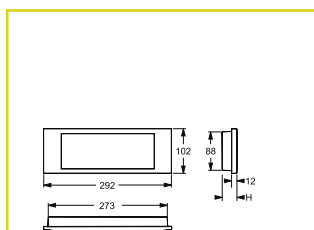
Battery supply: 24 V +/- 20% DC
Mains supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Protection class: III

CENTRAL SUPPLY

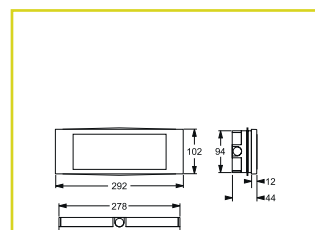
Battery supply: 176 V–276 V
Mains supply: 198 V–254 V/50 Hz
Ambient temperature: -20 °C to +40 °C
Protection class: II



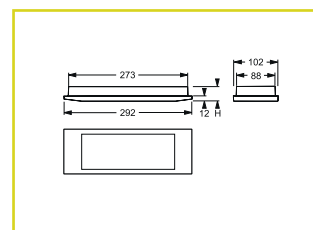
Polar diagram



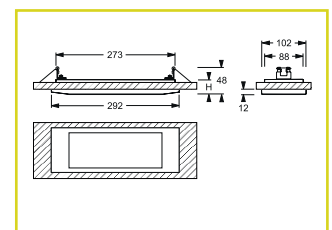
Surface wall mounting



Recessed wall mounting



Surface ceiling mounting



Ceiling cutout: 278 x 92 mm

Recessed ceiling mounting

CLASSIC SELF-CONTAINED SUPPLY

Classic
Order code



Surface and recessed wall/ceiling mounting, suspension for escape route lighting¹

| | | | | |
|-------|----|--------|-------------------------|-------|
| 16225 | 16 | 105 lm | NiMH 3.6 V / 1.2 Ah | 11 VA |
| 16226 | 32 | 190 lm | 2 x NiMH 3.6 V / 1.2 Ah | 11 VA |

DECENTRAL SUPPLY

Sicuro24
Order code



Surface and recessed wall/ceiling mounting, suspension for escape route lighting¹

| | | | |
|-------|----|--------|-------|
| 32069 | 20 | 120 lm | 1.7 W |
|-------|----|--------|-------|

CENTRAL SUPPLY

Sicuro230
Order code



Surface and recessed wall/ceiling mounting, suspension for escape route lighting¹

| | | | |
|-------|----|--------|----------------|
| 31098 | 20 | 120 lm | 4.8 VA / 1.8 W |
|-------|----|--------|----------------|

¹ For recessed wall and ceiling mounting please and suspension please order additional equipment separately

Please order additional equipment separately

| Order code | Description |
|------------|-----------------------------------|
| 3733 | Kit for recessed wall mounting |
| 4266 | Kit for recessed ceiling mounting |
| 4265 | Bracket suspension |



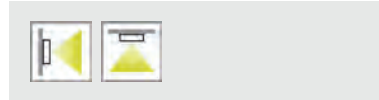
LUMAX

Combined general and safety luminaire. Round luminaire in a sheet steel housing with a domed diffuser made of opal plastic (PC). Homogeneous light emission.

Versions for wall mounting or ceiling mounting

Also available as a luminaire for general lighting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9003)
Diffusor: Methacrylate, opal

Service life $L_{80B_{20}}$: 50.000 h
Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

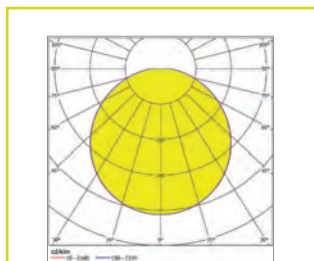
Mains supply: 198 V–254 V / 50 Hz
Specification: Maintained or non-maintained mode
Ambient temperature: LTO: -20 °C to +50 °C
 Classic: 0 °C to +40 °C
Protection class: I

DECENTRAL SUPPLY

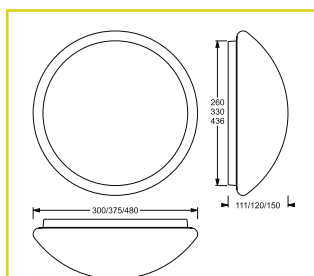
Battery supply: 24 V +/- 20% DC
Mains supply: 24 V +/- 20% DC
Ambient temperature: -20 °C to +40 °C
Protection class: I / III

CENTRAL SUPPLY

Battery supply: 176 V–276 V
Mains supply: 198 V–254 V / 50 Hz
Ambient temperature: -20 °C to +40 °C
Protection class: I



Polar diagram



Surface wall or ceiling mounting

| Data as mains luminaire Order code | P | LED | Φ | T _c | R _a |
|-----------------------------------------------------------------------------|------------------|-----|----------|----------------|----------------|
| 37105 / 37106 / 37107 / 36138 / 36139 / 36140 / 32060 / 31063 / 31062 | 18 W / 19.5 W | 68 | 1.700 lm | 3.000 K | > 80 |
| 37102 / 37103 / 37104 / 36135 / 36136 / 36137 / 32059 / 31059 / 31058 | 18 W / 19.5 W | 68 | 1.700 lm | 4.000 K | > 80 |
| 37111 / 37112 / 37113 / 36144 / 36145 / 36146 / 32062 / 31071 / 31070 | 24 W / 25.5 W | 88 | 2.450 lm | 3.000 K | > 80 |
| 37108 / 37109 / 37110 / 36141 / 36142 / 36143 / 32061 / 31067 / 31066 | 24 W / 25.5 W | 88 | 2.450 lm | 4.000 K | > 80 |
| 37117 / 37118 / 37119 / 36147 / 36148 / 36149 / 32064 / 31079 / 31078 | 24 W / 25.5 W | 88 | 3.650 lm | 3.000 K | > 80 |
| 37114 / 37115 / 37116 / 36147 / 36148 / 36149 / 32063 / 31075 / 31074 | 24 W / 25.5 W | 88 | 3.650 lm | 4.000 K | > 80 |



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | | S~ |
|------------------------------------------------------------------------------|-------------------|----------------------|-----|--------|--------|-------|------------------------|---------|
| Version with 3 K, surface wall or ceiling mounting for escape route lighting | | | | | | | | |
| 37105 (Ø 300 mm) | 37106 (Ø 300 mm) | 37107 (Ø 300 mm) | 68 | 315 lm | 158 lm | 43 lm | 2 x LTO 7.2 V / 0.5 Ah | 21.5 VA |
| 37111 (Ø 375 mm) | 37112 (Ø 375 mm) | 37113 (Ø 375 mm) | 88 | 315 lm | 158 lm | 43 lm | 2 x LTO 7.2 V / 0.5 Ah | 27.5 VA |
| 37117 (Ø 480 mm) | 37118 (Ø 480 mm) | 37119 (Ø 480 mm) | 88 | 315 lm | 158 lm | 43 lm | 2 x LTO 7.2 V / 0.5 Ah | 40.5 VA |
| Version with 4 K, surface wall or ceiling mounting for escape route lighting | | | | | | | | |
| 37102 (Ø 300 mm) | 37103 (Ø 300 mm) | 37104 (Ø 300 mm) | 68 | 315 lm | 158 lm | 43 lm | 2 x LTO 7.2 V / 0.5 Ah | 21.5 VA |
| 37108 (Ø 375 mm) | 37109 (Ø 375 mm) | 37110 (Ø 375 mm) | 88 | 315 lm | 158 lm | 43 lm | 2 x LTO 7.2 V / 0.5 Ah | 27.5 VA |
| 37114 (Ø 480 mm) | 37115 (Ø 480 mm) | 37116 (Ø 480 mm) | 88 | 315 lm | 158 lm | 43 lm | 2 x LTO 7.2 V / 0.5 Ah | 40.5 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Autotest | Logica | S~ |
|------------------------------------------------------------------------------|-------------------|----------------------|-----|--------|--------|--------------------|--------------------|---------|
| Version with 3 K, surface wall or ceiling mounting for escape route lighting | | | | | | | | |
| 36138 (Ø 300 mm) | 36139 (Ø 300 mm) | 36140 (Ø 300 mm) | 68 | 315 lm | 213 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 25.5 VA |
| 36144 (Ø 375 mm) | 36145 (Ø 375 mm) | 36146 (Ø 375 mm) | 88 | 315 lm | 213 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 31.5 VA |
| 36150 (Ø 480 mm) | 36151 (Ø 480 mm) | 36152 (Ø 480 mm) | 88 | 315 lm | 213 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 44.5 VA |
| Version with 4 K, surface wall or ceiling mounting for escape route lighting | | | | | | | | |
| 36135 (Ø 300 mm) | 36136 (Ø 300 mm) | 36137 (Ø 300 mm) | 68 | 315 lm | 213 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 25.5 VA |
| 36141 (Ø 375 mm) | 36142 (Ø 375 mm) | 36143 (Ø 375 mm) | 88 | 315 lm | 213 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 31.5 VA |
| 36147 (Ø 480 mm) | 36148 (Ø 480 mm) | 36149 (Ø 480 mm) | 88 | 315 lm | 213 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 44.5 VA |

SICURO[®] DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|------------------------------------------------------------------------------|-----|--------|-------|
| Version with 3 K, surface wall or ceiling mounting for escape route lighting | | | |
| 32060 (Ø 300 mm) | 68 | 315 lm | 4.3 W |
| 32062 (Ø 375 mm) | 88 | 315 lm | 4.3 W |
| 32064 (Ø 480 mm) | 88 | 315 lm | 4.3 W |
| Version with 4 K, surface wall or ceiling mounting for escape route lighting | | | |
| 32059 (Ø 300 mm) | 68 | 315 lm | 4.3 W |
| 32061 (Ø 375 mm) | 88 | 315 lm | 4.3 W |
| 32063 (Ø 480 mm) | 88 | 315 lm | 4.3 W |

SICURO[®] CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|-----------------|----|
| Version with 3 K with single monitoring, surface wall or ceiling mounting for escape route lighting with reduced power in battery operation | | | | |
| 31063 (Ø 300 mm) | 8 (60°) | 315 lm | 20 VA / 4.7 W | |
| 31071 (Ø 375 mm) | 8 (80°) | 315 lm | 26 VA / 4.7 W | |
| 31079 (Ø 480 mm) | 8 (80°) | 315 lm | 37.5 VA / 4.7 W | |
| Version with 4 K with single monitoring, surface wall or ceiling mounting for escape route lighting with reduced power in battery operation | | | | |
| 31059 (Ø 300 mm) | 8 (60°) | 315 lm | 20 VA / 4.7 W | |
| 31067 (Ø 375 mm) | 8 (80°) | 315 lm | 26 VA / 4.7 W | |
| 31075 (Ø 480 mm) | 8 (80°) | 315 lm | 26 VA / 4.7 W | |
| Version with 3 K with single monitoring, surface wall or ceiling mounting for escape route lighting without reduced power in battery operation | | | | |
| 31062 (Ø 300 mm) | 68 | 1.750 lm | 20 VA / 18.5 W | |
| 31070 (Ø 375 mm) | 88 | 2.450 lm | 26 VA / 24.5 W | |
| 31078 (Ø 480 mm) | 88 | 3.650 lm | 39 VA / 37.5 W | |
| Version with 3 K with single monitoring, surface wall or ceiling mounting for escape route lighting without reduced power in battery operation | | | | |
| 31058 (Ø 300 mm) | 68 | 1.750 lm | 20 VA / 18.5 W | |
| 31066 (Ø 375 mm) | 88 | 2.450 lm | 26 VA / 24.5 W | |
| 31074 (Ø 480 mm) | 88 | 3.650 lm | 39 VA / 37.5 W | |
| Version with 3 K without single monitoring (EVG), surface wall or ceiling mounting for escape route lighting with reduced power in battery operation | | | | |
| 31065 (Ø 300 mm) | 8 (60°) | 315 lm | 20 VA / 5.4 W | |
| 31073 (Ø 375 mm) | 8 (80°) | 315 lm | 26 VA / 5.4 W | |
| 31081 (Ø 480 mm) | 8 (80°) | 315 lm | 39 VA / 5.4 W | |
| Version with 4 K without single monitoring (EVG), surface wall or ceiling mounting for escape route lighting with reduced power in battery operation | | | | |
| 31061 (Ø 300 mm) | 8 (60°) | 315 lm | 20 VA / 5.4 W | |
| 31069 (Ø 375 mm) | 8 (80°) | 315 lm | 26 VA / 5.4 W | |
| 31077 (Ø 480 mm) | 8 (80°) | 315 lm | 39 VA / 5.4 W | |
| Version with 3 K without single monitoring (EVG), surface wall or ceiling mounting for escape route lighting without reduced power in battery operation | | | | |
| 31064 (Ø 300 mm) | 68 | 1.750 lm | 18.5 VA / 17 W | |
| 31072 (Ø 375 mm) | 88 | 2.450 lm | 24.5 VA / 23 W | |
| 31080 (Ø 480 mm) | 88 | 3.650 lm | 37.5 VA / 36 W | |
| Version with 3 K without single monitoring (EVG), surface wall or ceiling mounting for escape route lighting without reduced power in battery operation | | | | |
| 31060 (Ø 300 mm) | 68 | 1.750 lm | 18.5 VA / 17 W | |
| 31068 (Ø 375 mm) | 88 | 2.450 lm | 24.5 VA / 23 W | |
| 31076 (Ø 480 mm) | 88 | 3.650 lm | 37.5 VA / 36 W | |

¹ LEDs in battery operation / mains operation



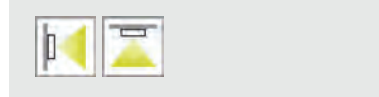
LUMAX65

High protection class combined general and safety luminaire. Round luminaire in plastic all-round frame housing (PC) with a domed diffuser made of opal plastic (PC). Homogeneous light emission.

Versions for wall mounting or ceiling mounting

Also available as a luminaire for general lighting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Polycarbonate, grey (RAL 9006)
Polycarbonate, black (RAL 9011)

Diffusor: Polycarbonate, opal

Service life $L_{80B_{20}}$: 50.000 h

Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Mains supply: 198 V–254 V/50 Hz

Specification: Maintained or non-maintained mode

Ambient temperature: LTO: -20 °C to +50 °C
Classic: 0 °C to +40 °C

Protection class: I

DECENTRAL SUPPLY

Battery supply: 24 V +/- 20% DC

Mains supply: 24 V +/- 20% DC

Ambient temperature: -20 °C to +40 °C

Protection class: I / III

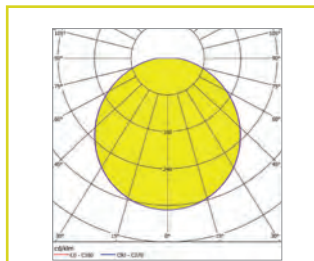
CENTRAL SUPPLY

Battery supply: 176 V–276 V

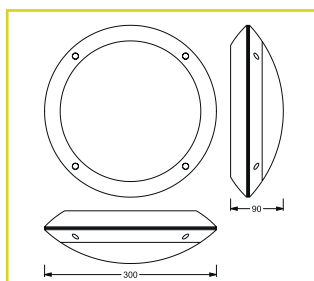
Mains supply: 198 V–254 V/50 Hz

Ambient temperature: -20 °C to +40 °C

Protection class: I



Polar diagram



Surface wall or ceiling mounting

| Data as mains luminaire Order code | P | LED | Φ | T _c | R _a |
|-----------------------------------------------------------------------------|------------------|-----|----------|----------------|----------------|
| 37123 / 37124 / 37125 / 36156 / 36157 / 36158 / 32066 / 31086 / 31089 | 17 W / 18.5 W | 68 | 1.500 lm | 3.000 K | > 80 |
| 37120 / 37121 / 37122 / 36153 / 36154 / 36155 / 32065 / 31082 / 31085 | 17 W / 18.5 W | 68 | 1.500 lm | 4.000 K | > 80 |
| 37129 / 37130 / 37131 / 36162 / 36163 / 36164 / 32068 / 31094 / 31095 | 17 W / 18.5 W | 68 | 1.500 lm | 3.000 K | > 80 |
| 37126 / 37127 / 37128 / 36159 / 36160 / 36161 / 32067 / 31090 / 31093 | 17 W / 18.5 W | 68 | 1.500 lm | 4.000K | > 80 |



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | Battery | S~ |
|---------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|-------|------------------------|---------|
| Version with 3 K, black housing, surface wall or ceiling mounting for escape route lighting | | | | | | | | |
| 37123 | 37124 | 37125 | 68 | 278 lm | 140 lm | 38 lm | 2 x LTO 7.2 V / 0.5 Ah | 21.5 VA |
| Version with 3 K, grey housing, surface wall or ceiling mounting for escape route lighting | | | | | | | | |
| 37129 | 37130 | 37131 | 68 | 278 lm | 140 lm | 38 lm | 2 x LTO 7.2 V / 0.5 Ah | 21.5 VA |
| Version with 4 K, black housing, surface wall or ceiling mounting for escape route lighting | | | | | | | | |
| 37120 | 37121 | 37122 | 68 | 278 lm | 140 lm | 38 lm | 2 x LTO 7.2 V / 0.5 Ah | 21.5 VA |
| Version with 4 K, grey housing, surface wall or ceiling mounting for escape route lighting | | | | | | | | |
| 37126 | 37127 | 37128 | 68 | 278 lm | 140 lm | 38 lm | 2 x LTO 7.2 V / 0.5 Ah | 21.5 VA |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Battery | Autotest | Logica | S~ |
|---------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|--------|--------|--------------------|--------------------|---------|----|
| Version with 3 K, black housing, surface wall or ceiling mounting for escape route lighting | | | | | | | | | |
| 36156 | 36157 | 36158 | 68 | 278 lm | 190 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 25.5 VA | |
| Version with 3 K, grey housing, surface wall or ceiling mounting for escape route lighting | | | | | | | | | |
| 36162 | 36163 | 36164 | 68 | 278 lm | 190 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 25.5 VA | |
| Version with 4 K, black housing, surface wall or ceiling mounting for escape route lighting | | | | | | | | | |
| 36153 | 36154 | 36155 | 68 | 278 lm | 190 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 25.5 VA | |
| Version with 4 K, grey housing, surface wall or ceiling mounting for escape route lighting | | | | | | | | | |
| 36159 | 36160 | 36161 | 68 | 278 lm | 190 lm | NiMH 7.2V / 0.6 Ah | NiMH 7.2V / 1.2 Ah | 25.5 VA | |



DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|---------------------------------------------------------------------------------------------|-----|--------|-------|
| Version with 3 K, black housing, surface wall or ceiling mounting for escape route lighting | | | |
| 32066 | 68 | 278 lm | 4.3 W |
| Version with 3 K, grey housing, surface wall or ceiling mounting for escape route lighting | | | |
| 32068 | 68 | 278 lm | 4.3 W |
| Version with 4 K, black housing, surface wall or ceiling mounting for escape route lighting | | | |
| 32065 | 68 | 278 lm | 4.3 W |
| Version with 4 K, grey housing, surface wall or ceiling mounting for escape route lighting | | | |
| 32067 | 68 | 278 lm | 4.3 W |



CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|-----------------------------------------------------------------------------------------------|---------|----------|----------------|----|
| Version with 4 K with single monitoring, black housing, without reduced power | | | | |
| 31082 | 68 | 1.500 lm | 20 VA / 18,5 W | |
| Version with 3 K with single monitoring, black housing, without reduced power | | | | |
| 31086 | 68 | 1.500 lm | 20 VA / 18,5 W | |
| Version with 4 K with single monitoring, grey housing, without reduced power | | | | |
| 31090 | 68 | 1.500 lm | 20 VA / 18,5 W | |
| Version with 3 K with single monitoring, grey housing, without reduced power | | | | |
| 31094 | 68 | 1.500 lm | 20 VA / 18,5 W | |
| Version with 4 K with single monitoring, black housing, with reduced power | | | | |
| 31083 | 8 (60°) | 278 lm | 20 VA / 4,7 W | |
| Version with 3 K with single monitoring, black housing, with reduced power | | | | |
| 31087 | 8 (60°) | 278 lm | 20 VA / 4,7 W | |
| Version with 4 K with single monitoring, grey housing, with reduced power | | | | |
| 31091 | 8 (60°) | 278 lm | 20 VA / 4,7 W | |
| Version with 3 K with single monitoring, grey housing, with reduced power | | | | |
| 31095 | 8 (60°) | 278 lm | 20 VA / 4,7 W | |
| Version with 4 K without single monitoring (EVG), black housing, without reduced power | | | | |
| 31084 | 68 | 1.500 lm | 18,5 VA / 17 W | |
| Version with 3 K without single monitoring (EVG), black housing, without reduced power | | | | |
| 31088 | 68 | 1.500 lm | 18,5 VA / 17 W | |
| Version with 4 K without single monitoring (EVG), grey housing, without reduced power | | | | |
| 31092 | 68 | 1.500 lm | 18,5 VA / 17 W | |
| Version with 4 K without single monitoring (EVG), grey housing, without reduced power | | | | |
| 31096 | 68 | 1.500 lm | 18,5 VA / 17 W | |
| Version with 4 K without single monitoring (EVG), black housing, with reduced power | | | | |
| 31085 | 8 (60°) | 278 lm | 20 VA / 5,4 W | |
| Version with 3 K without single monitoring (EVG), black housing, with reduced power | | | | |
| 31089 | 8 (60°) | 278 lm | 20 VA / 5,4 W | |
| Version with 4 K without single monitoring (EVG), grey housing, with reduced power | | | | |
| 31093 | 8 (60°) | 278 lm | 20 VA / 5,4 W | |
| Version with 3 K without single monitoring (EVG), grey housing, with reduced power | | | | |
| 31097 | 8 (60°) | 278 lm | 20 VA / 5,4 W | |

¹ LEDs in battery operation / mains operation

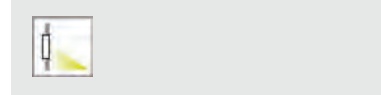


S-IN

Safety luminaire for steps. Housing made of aluminium with frame or shade cover, exchangeable. Recessed mounting housing for solid steps included in delivery.

Version for recessed step mounting

MOUNTING OPTIONS



TECHNICAL DATA

| | |
|----------------------|------------------------------------|
| Mounting: | Recessed step mounting |
| Housing: | Aluminium, grey (RAL 7030) |
| Cover: | Diecast aluminium, grey (RAL 7030) |
| Display pane: | Glass, opal |

| | |
|------------------------------------------------|----------|
| Service life $L_{80B_{20}}$: | 50.000 h |
| Color stability: | 3 SDCM |



DECENTRAL SUPPLY

Battery supply:
24 V +/- 20% DC

Mains supply:
24 V +/- 20% DC

Ambient temperature:
-20 °C to +40 °C

Protection class:
III

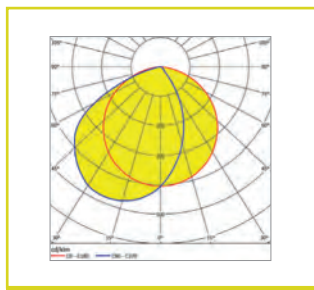
CENTRAL SUPPLY

Battery supply:
176 V–276 V

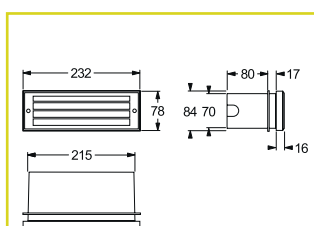
Mains supply:
198V–254V/50Hz

Ambient temperature:
-20 °C to +40 °C

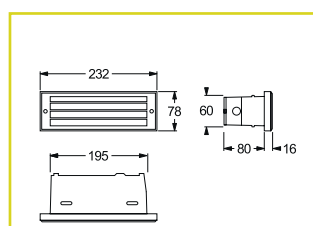
Protection class:
I



Polar diagram



Recessed step mounting (solid)



Step cutout: 278 x 92 mm

Recessed step mounting (hollow)

SICURO LED DECENTRAL SUPPLY

Sicuro24
Order code



Recessed step mounting for escape route lighting

| | | | |
|--------------|---|-------|-------|
| 32031 | 3 | 29 lm | 4.3 W |
|--------------|---|-------|-------|

SICURO LED CENTRAL SUPPLY

Sicuro230
Order code



Recessed step mounting for escape route lighting

| | | | |
|--------------|---|-------|----------------|
| 31031 | 3 | 29 lm | 8.9 VA / 4.5 W |
|--------------|---|-------|----------------|

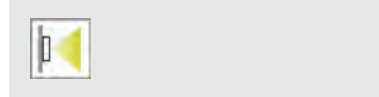


TRIANGLE

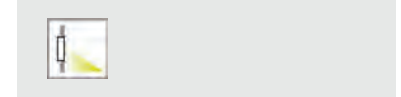
Housing is made of stainless steel and has a triangular design with downwards-directed light-emitting surfaces. High-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), or for symmetrically emitted light distribution (illumination of surfaces with 0.5 lx).

Versions for wall mounting or with additional equipment for bollards

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9003)
Stainless steel, V2A

Cover: Methacrylate, transparent

Lens: Methacrylate

Service life $L_{80B_{20}}$: 50.000 h

Color stability: 3 SDCM



SELF-CONTAINED SUPPLY

Mains supply:
198 V–254 V/50 Hz

Specification:
Maintained or
non-maintained mode

Ambient temperature:
LTO: -20 °C to +40 °C
Classic: 0 °C to +40 °C

Protection class:
I

DECENTRAL SUPPLY

Battery supply:
24 V +/- 20% DC

Mains supply:
24 V +/- 20% DC

Ambient temperature:
-20 °C to +40 °C

Protection class:
III

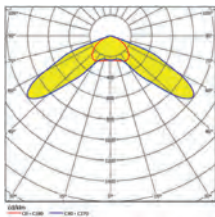
CENTRAL SUPPLY

Battery supply:
176 V–276 V

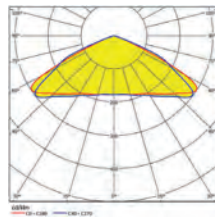
Mains supply:
198V–254V/50Hz

Ambient temperature:
-20 °C to +40 °C

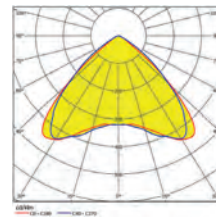
Protection class:
I



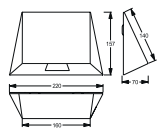
Asymmetric
wide beam



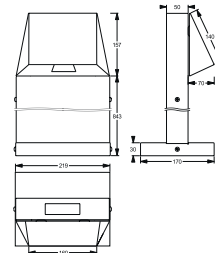
Symmetric
wide beam to 3.5 m



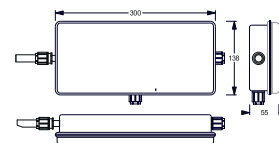
Symmetric
wide beam to 7 m



Surface wall mounting



Floor mounting



Box for self-contained supply battery



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | | S~ |
|--------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|------------------------|------------------------|-----------------------|------------------------|---------|
| Surface wall mounting suitable for escape route or area lighting with 3 changeable lenses, white | | | | | | | | |
| 37096 | 37097 | 37098 | 1 | Escape route 196 lm | Escape route 113 lm | Escape route 32 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| | | | | Area 214 / 209 lm | Area 124 / 120 lm | Area 35 / 34 lm | | |
| Surface wall mounting suitable for escape route or area lighting with 3 changeable lenses, V2A | | | | | | | | |
| 37099 | 37100 | 37101 | 1 | Escape route 196 lm | Escape route 113 lm | Escape route 32 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| | | | | Area 214 / 209 lm | Area 124 / 120 lm | Area 35 / 34 lm | | |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Autotest | Logica | S~ |
|--------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----|------------------------|------------------------|---------------------|---------------------|------|
| Surface wall mounting suitable for escape route or area lighting with 3 changeable lenses, white | | | | | | | | |
| 36123 | 36124 | 36125 | 1 | Escape route 196 lm | Escape route 132 lm | NiMH 7.2 V / 1.2 Ah | NiMH 7.2 V / 1.2 Ah | 8 VA |
| | | | | Area 214 / 209 lm | Area 144 / 140 lm | | | |
| Surface wall mounting suitable for escape route or area lighting with 3 changeable lenses, V2A | | | | | | | | |
| 36129 | 36130 | 36131 | 1 | Escape route 196 lm | Escape route 132 lm | NiMH 7.2 V / 1.2 Ah | NiMH 7.2 V / 1.2 Ah | 8 VA |
| | | | | Area 214 / 209 lm | Area 144 / 140 lm | | | |



DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|--------------------------------------------------------------------------------------------------|-----|------------------------|-------|
| Surface wall mounting suitable for escape route or area lighting with 3 changeable lenses, white | | | |
| 32057 | 1 | Escape route 196 lm | 3.8 W |
| | | Area 214 / 209 lm | |
| Surface wall mounting suitable for escape route or area lighting with 3 changeable lenses, V2A | | | |
| 32058 | 1 | Escape route 196 lm | 3.8 W |
| | | Area 214 / 209 lm | |



CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|--------------------------------------------------------------------------------------------------|-----|------------------------|---------------|----|
| Surface wall mounting suitable for escape route or area lighting with 3 changeable lenses, white | | | | |
| 31056 | 1 | Escape route 196 lm | 8.3VA / 4.1 W | |
| | | Area 214 / 209 lm | | |
| Surface wall mounting suitable for escape route or area lighting with 3 changeable lenses, V2A | | | | |
| 31057 | 1 | Escape route 196 lm | 8.3VA / 4.1 W | |
| | | Area 214 / 209 lm | | |

Please order additional equipment separately

| Order code | Description |
|------------|----------------|
| F95940 | Bollard, white |
| F95941 | Bollard, V2A |



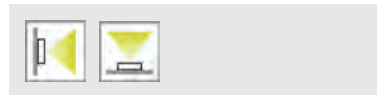
F30 / F50 / F70 LED

High protection class combined general and safety luminaire with high impact strength. Spotlight in housing made of die-cast aluminium with tempered glass insert and microprismatic, highly reflective aluminium reflector. The insert is attached to the housing with stainless steel hinges and locks. Swivelling mounting ($\pm 180^\circ$). Light distribution can be emitted symmetrically over a wide area or emitted asymmetrically over a narrow area, can be changed.

Versions for wall mounting or floor mounting

Also available as a luminaire for general lighting

MOUNTING OPTIONS



TECHNICAL DATA

| | |
|----------------------|------------------------------------|
| Housing: | Diecast aluminium, grey (RAL 7035) |
| Display pane: | Tempered glass, microprismatic |
| Reflector: | Aluminium, specular |

| | |
|-----------------------------|----------|
| Service life L80B20: | 50.000 h |
| Color stability: | 3 SDCM |



SELF-CONTAINED SUPPLY

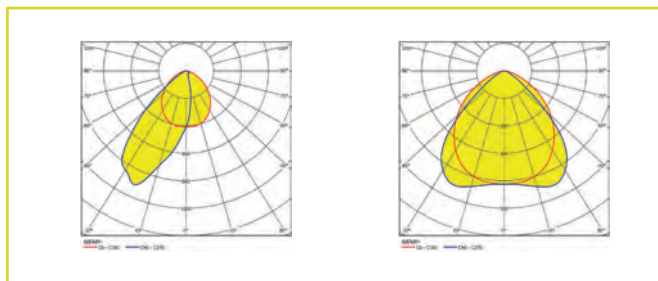
| | |
|------------------------------------------------------------|--------------------------------------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: LTO: -20°C to $+50^\circ\text{C}$ |
| Specification: Maintained or non-maintained mode | Protection class: I |

DECENTRAL SUPPLY

| | |
|---------------------------------------------|---------------------------------------------------------------------------|
| Battery supply: 24 V \pm 20% DC | Ambient temperature: -20°C to $+40^\circ\text{C}$ |
| Mains supply: 24 V \pm 20% DC | Protection class: I / III |

CENTRAL SUPPLY

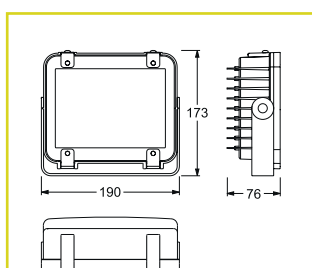
| | |
|----------------------------------------|---------------------------------------------------------------------------|
| Battery supply: 176 V–276 V | Ambient temperature: -20°C to $+40^\circ\text{C}$ |
| Mains supply: 198V–254V/50Hz | Protection class: I |



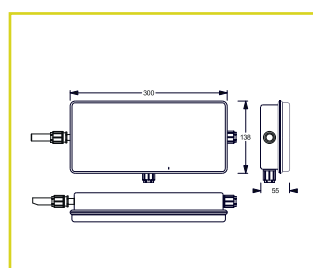
Asymmetric

Symmetric

| Data as mains luminaire Order code | LED | P | Φ | T_c | R_a |
|---------------------------------------|-----|------|----------|---------|-------|
| 37219 / 37220 / 32071 / 31100 | 33 | 17 W | 1.800 lm | 4.000 K | >80 |
| 37221 / 37222 / 32072 / 31101 | 66 | 26 W | 3.000 lm | 4.000 K | >80 |
| 37223 / 37224 / 32073 / 31102 | 99 | 37 W | 4.000 lm | 4.000 K | >80 |




Wall or floor mounting



Self-contained supply box



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h |  | S~ |
|--------------------------------------------------------------------------|----------------------|-------------------------|-----|----------|--------|--------|-------------------------------------------------------------------------------------|-------|
| Surface wall mounting, floor mounting suitable for escape route lighting | | | | | | | | |
| 37219 | 37219 | 37220 | 33 | 1.050 lm | 350 lm | 130 lm | LTO 14.4 V / 1.2 Ah | 21 VA |
| 37221 | 37221 | 37222 | 66 | 1.050 lm | 380 lm | 140 lm | LTO 14.4 V / 1.2 Ah | 31 VA |
| 37223 | 37223 | 37224 | 99 | 1.080 lm | 360 lm | 135 lm | LTO 14.4 V / 1.2 Ah | 44 VA |

 DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|--------------------------------------------------------------------------|-----|--------------------------------|-------------------------|
| Surface wall mounting, floor mounting suitable for escape route lighting | | | |
| 32071 | 33 | 635 lm / 1.270 lm ³ | 8 W / 16 W ³ |
| 32072 | 66 | 690 lm / 1.380 lm ³ | 8 W / 16 W ³ |
| 32073 | 99 | 650 lm / 1.290 lm ³ | 8 W / 16 W ³ |

 CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|--------------------------------------------------------------------------|-----|-----------------------|----------------|----|
| Surface wall mounting, floor mounting suitable for escape route lighting | | | | |
| 31100 | 33 | 1.800 lm ³ | 20.5 VA / 17 W | |
| 31101 | 66 | 3.000 lm ³ | 30.5 VA / 26 W | |
| 31102 | 99 | 4.000 lm ³ | 43 VA / 37 W | |

³ Programmable via decentral supply



TULA

Combined exit sign and safety luminaire. Housing has a flat design with convex light-emitting surface and an opal insert. Single or double-sided escape route signage is provided thanks to self-adhesive films. In the combined exit sign luminaire and safety luminaire version, additional high-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), or for symmetrically emitted light distribution (illumination of surfaces with 0.5 lx).

Versions for wall mounting or with additional equipment for ceiling mounting or wire or rod suspension mounting and mounting on brackets

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

Housing: Sheet steel, grey (RAL 9006)
Cover: Methacrylate, opal
Lens: Methacrylate

Service life $L_{80/B_{20}}$: 50.000 h
Color stability: 3 SDCM



DECENTRAL SUPPLY

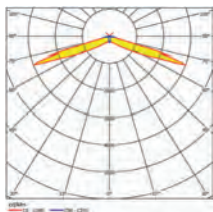
Battery supply:
24 V +/- 20% DC
Mains supply:
24 V +/- 20% DC

Ambient temperature:
-20 °C to +40 °C
S24-Protection class:
III

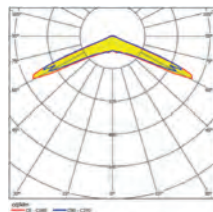
CENTRAL SUPPLY

Battery supply:
176 V-276 V
Mains supply:
198 V-254 V/50 Hz

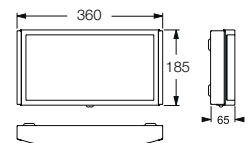
Ambient temperature:
-20 °C to +40 °C
Protection class:
I



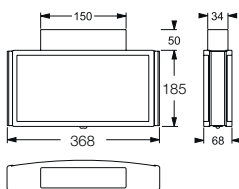
Asymmetric wide beam



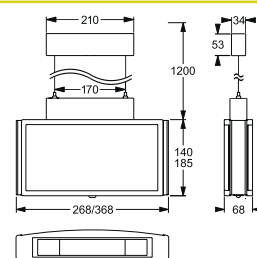
Symmetric wide beam up to 3.5 m



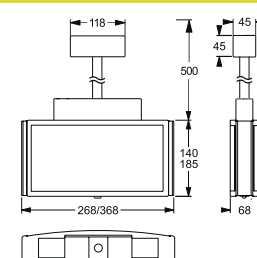
Surface wall mounting



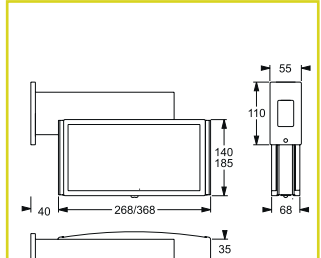
Surface ceiling mounting



Wire suspension



Suspension rod



Bracket suspension

SICURO^{LED} DECENTRAL SUPPLY

| | | | | |
|-------------------------------|--|--|--|--|
| Sicuro24 Order code | | | | |
|-------------------------------|--|--|--|--|

Surface wall mounting for single faced indication suitable for escape route lighting and area lighting with 2 changeable lenses ¹

| | | | | |
|--------------|------|--------|------------------------|-------|
| 32028 | 32 m | 48 | Escape route 261 lm | 8.1 W |
| | | + 1 | Area 285 lm | |

Surface ceiling mounting for single faced indication suitable for escape route lighting and area lighting with 2 changeable lenses ¹

| | | | | |
|--------------|------|--------|------------------------|-------|
| 32030 | 32 m | 48 | Escape route 261 lm | 8.1 W |
| | | + 1 | Area 285 lm | |

¹ Für surface mounting and all suspended versions, please order required equipment separately

SICURO^{LED} CENTRAL SUPPLY

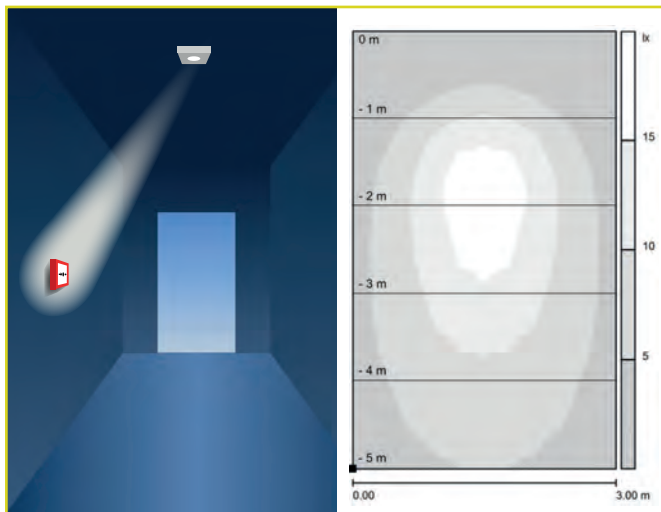
| | | | | | |
|--------------------------------|--|--|--|--|--|
| Sicuro230 Order code | | | | | |
|--------------------------------|--|--|--|--|--|

Surface wall mounting for single faced indication suitable for escape route lighting and area lighting with 2 changeable lenses

| | | | | |
|--------------|------|--------|------------------------|-----------------|
| 31028 | 32 m | 48 | Escape route 261 lm | 17.7 VA / 8.8 W |
| | | + 1 | Area 285 lm | |

Surface ceiling mounting for single faced indication suitable for escape route lighting and area lighting with 2 changeable lenses ¹

| | | | | |
|--------------|------|--------|------------------------|-----------------|
| 31030 | 32 m | 48 | Escape route 261 lm | 17.7 VA / 8.8 W |
| | | + 1 | Area 285 lm | |



Illumination of safety devices

| Included in standard delivery | |
|-------------------------------|----------------|
| Order code | Description |
| F15338MU | Exit sign film |
| F15338MR | Exit sign film |
| F15338ML | Exit sign film |
| F15338MO | Exit sign film |

| Please order additional equipment separately | |
|----------------------------------------------|-------------------------------------|
| Order code | Description |
| F95109PK | Adapter for ceiling mounting |
| F95109PR | Suspension rod, rectangular, 500 mm |
| F95109PS | Wire suspension, max. 1.200 mm |
| F95109P | Bracket suspension |

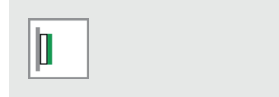


KUBUS

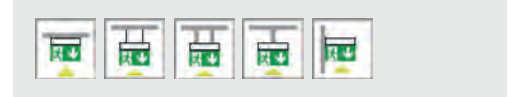
Combined exit sign and safety luminaires. Housing made of flat sheet steel profiles with angular contours. Single or double-sided escape route signage is provided thanks to exchangeable inserts. In the combined exit sign luminaire and safety luminaire version, additional high-power LED with lighting control through special lenses for asymmetrically-emitted light distribution (illumination of paths with 1 lx), or for symmetrically emitted light distribution (illumination of surfaces with 0.5 lx).

Version for surface wall mounting or with equipment for ceiling mounting, wire or rod suspension, mounting on brackets and chain suspension

MOUNTING OPTIONS



MOUNTING OPTIONS WITH EQUIPMENT



TECHNICAL DATA

| | | | |
|----------------------|-------------------------------|--------------------------------------------------|----------|
| Housing: | Sheet steel, white (RAL 9003) | Service life $L_{50, B_{20}}$: | 50.000 h |
| Display pane: | Methacrylate, printed | Color stability: | 3 SDCM |
| Lens: | Methacrylate | | |

< 3.5 m >
H
22 m

VD 34 m

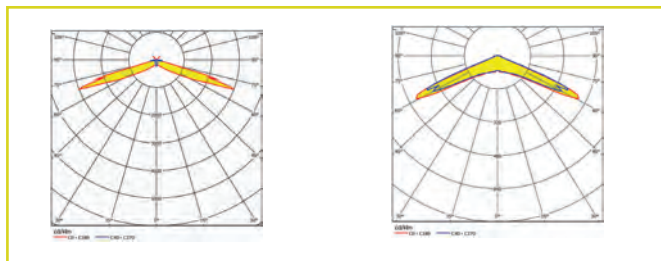
IP40

DECENTRAL SUPPLY

| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 24 V +/- 20% DC | S24-Protection class: III |

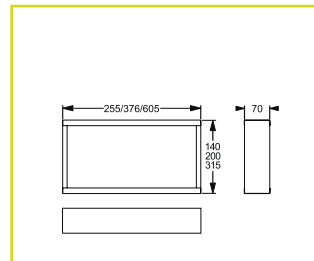
CENTRAL SUPPLY

| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 176 V-276 V | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 198 V-254 V/50 Hz | Protection class: I |

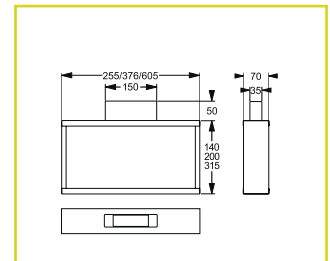


Asymmetric wide beam

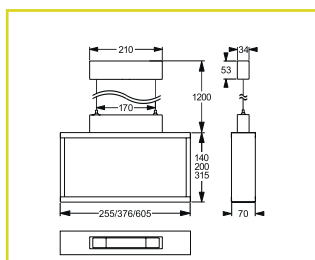
Symmetric wide beam to 3.5 m



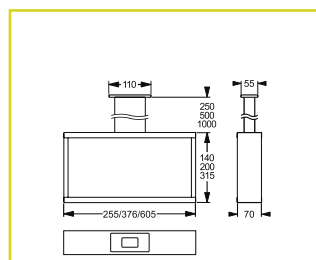
Surface wall mounting



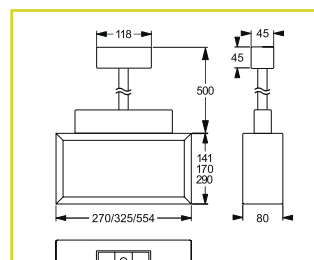
Surface ceiling mounting



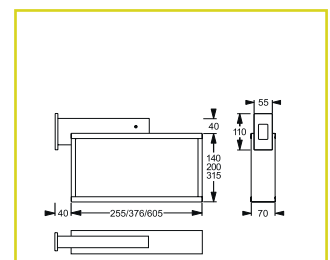
Wire suspension



Suspension rod, rectangular



Suspension rod round



Bracket suspension

SICURO^{LED} DECENTRAL SUPPLY

| | | | | |
|-------------------------------|--|--|--|--|
| Sicuro24 Order code | | | | |
|-------------------------------|--|--|--|--|

Surface wall mounting for single faced indication suitable for escape route lighting and area lighting with 2 changeable lenses¹

| | | | | |
|--------------|-----|--------|------------------------|-------|
| 32105 | 34m | 48 | Escape route 261 lm | 8.1 W |
| | | + 1 | Area 285 lm | |

Surface ceiling mounting for single faced indication suitable for escape route lighting and area lighting with 2 changeable lenses¹

| | | | | |
|--------------|-----|--------|------------------------|-------|
| 32106 | 34m | 48 | Escape route 261 lm | 8.1 W |
| | | + 1 | Area 285 lm | |

¹ For surface mounting and all suspended versions please order required equipment separately

SICURO^{LED} CENTRAL SUPPLY

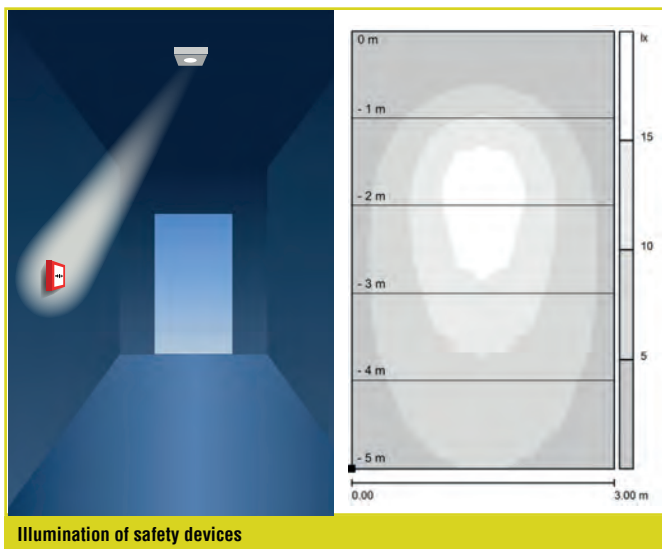
| | | | | | |
|--------------------------------|--|--|--|--|--|
| Sicuro230 Order code | | | | | |
|--------------------------------|--|--|--|--|--|

Surface wall mounting for single faced indication suitable for escape route lighting and area lighting with 2 changeable lenses¹

| | | | | |
|--------------|-----|--------|------------------------|-----------------|
| 31154 | 34m | 48 | Escape route 261 lm | 17.7 VA / 8.8 W |
| | | + 1 | Area 285 lm | |

Surface ceiling mounting for single faced indication suitable for escape route lighting and area lighting with 2 changeable lenses¹

| | | | | |
|--------------|-----|--------|------------------------|-----------------|
| 31155 | 34m | 48 | Escape route 261 lm | 17.7 VA / 8.8 W |
| | | + 1 | Area 285 lm | |



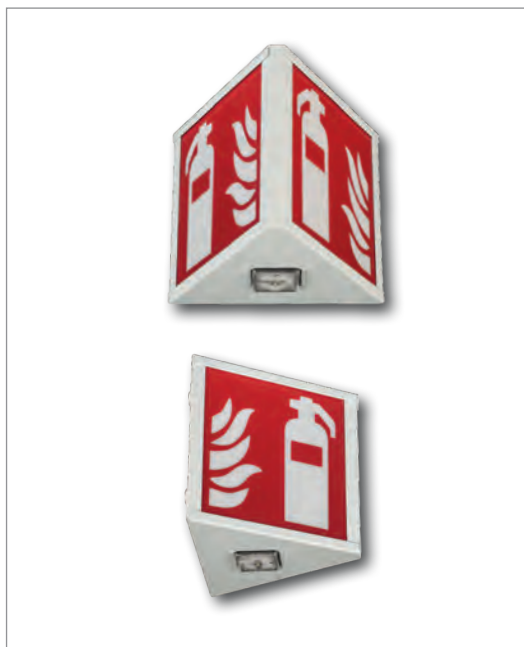
Illumination of safety devices

Please order exit sign equipment separately

| Order code | Description | |
|----------------|--------------------------|--|
| E16608M | Exit sign display pane | |
| E16609M | Exit sign display pane | |
| E16610M | Exit sign display pane | |
| E16640M | Exit sign display pane | |
| E16642M | Exit sign display pane | |
| E16641M | Exit sign display pane | |
| E16643M | Exit sign display pane | |
| E16611 | Opal plastic pane | |
| E16241 | Opal plastic pane, white | |

Please order additional equipment separately

| | Description |
|----------------|---------------------------------------|
| F95057 | Adapter for ceiling mounting |
| F95600 | Suspension rod, rectangular, 250 mm |
| F95601 | Suspension rod, rectangular, 500 mm |
| F95602 | Suspension rod, rectangular, 1.000 mm |
| F95400 | Suspension rod, round, 500 mm |
| F95401 | Wire suspension, max. 1.200 mm |
| F95056 | Bracket suspension |
| F95067 | Adapter for chain or wire suspension |
| F95032K | Wire guard |



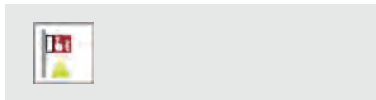
SIGN LED

Combined safety sign and safety luminaire. Housing made of flat sheet steel profiles with angular contours and a triangular design. Double-sided signage for safety devices is provided by exchangeable safety sign inserts.

Illumination of safety devices with 5 lx through high-power LED with lighting control through a special lens.

Version for wall mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Sheet steel, white (RAL 9003)
Display pane: Methacrylate, printed
Lens: Methacrylate

Service life $L_{80}B_{20}$: 50.000 h
Color stability: 3 SDCM



DECENTRAL SUPPLY

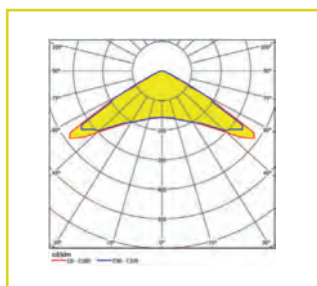
Battery supply:
24 V +/- 20% DC
Mains supply:
24 V +/- 20% DC

Ambient temperature:
-20 °C to +40 °C
Protection class:
III

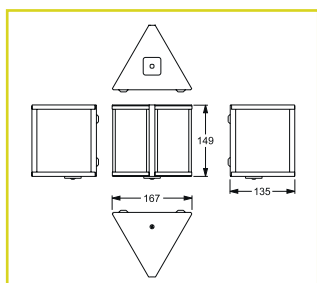
CENTRAL SUPPLY

Battery supply:
176 V–276 V
Mains supply:
198 V–254 V/50 Hz

Ambient temperature:
-20 °C to +40 °C
Protection class:
I



Polar diagram



Surface wall mounting

SICURO^{LED} DECENTRAL SUPPLY

Sicuro24
Order code



Surface wall mounting for illumination of safety devices

| | | | |
|-------|------|---|-------|
| 32074 | 26 m | 3 | 8.1 W |
|-------|------|---|-------|

SICURO^{LED} CENTRAL SUPPLY

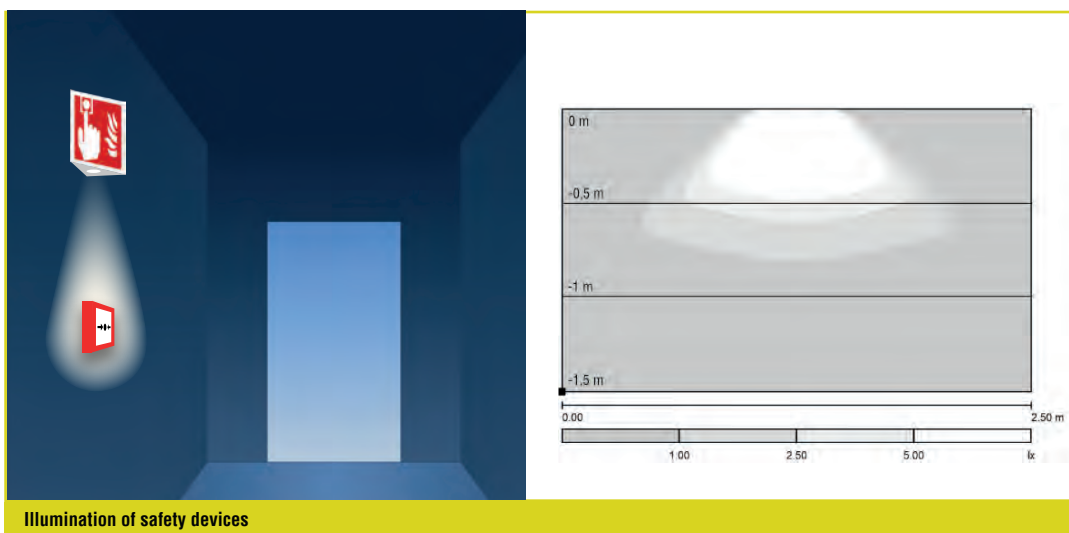
Sicuro230
Order code



Surface wall mounting for illumination of safety devices







| | | | |
|-------|------|---|-----------------|
| 31103 | 26 m | 3 | 17.2 VA / 8.6 W |
|-------|------|---|-----------------|

Lamps to illuminate the safety signs and the safety device separately programmable in permanent or standby mode.



Illumination of safety devices

Please order safety sign equipment separately

| Order code | Description |
|------------|-------------------------------------------------------------------------------------------------------------------------|
| E16914M |  F001 Safety sign fire extinguisher |
| E16915M |  F002 Safety sign extinguishing hose |
| E16913M |  F005 Safety sign fire detector |
| E16910M |  E003 Safety sign first aid |
| E16912M |  E004 Safety sign first aid phone |
| E16911M |  E007 Safety sign collective place |



SCOUT LED

Safety luminaire used as portable LED lamp. Housing made of polycarbonate with adjustable lamp head (120°).

Lamp head with main LED and secondary LED with automatic flashing activation switch pushing button.

Charging and switching device integrated in the housing

TECHNICAL DATA

Housing: Polycarbonate, orange (RAL 2009)
Frame: Polycarbonate, grey (RAL 7026)

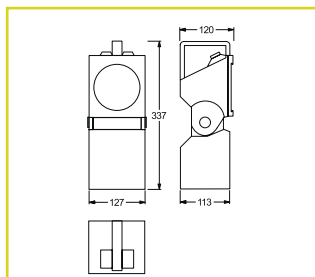
Service life $L_{80B_{20}}$: 50.000 h
Color stability: 3 SDCM

IP40

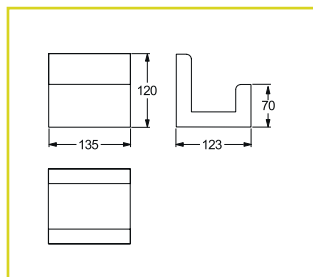
SELF-CONTAINED

Specification:
 Non-maintained mode
Mains supply:
 230 V / 50 / 60 Hz

Ambient temperature:
 0 °C to +40 °C
Protection class:
 II



Portable LED-lamp



Wall support

CLASSIC SELF-CONTAINED SUPPLY

| Classic Order code |  |  |  |  |
|-----------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 8380 | 2 | 2.4 W ¹ 0.2 W ² | 230 lm (9.5 h) ¹ 23.5 lm (85 h) ² | Pb 6 V / 4.5 Ah |

¹ Main LED

² Secondary LED

Please order additional equipment separately

| Order code | Description |
|------------|--------------|
| 2750 | Wall support |

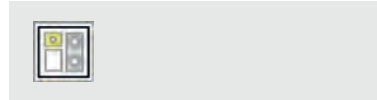
PLURALUCE-LEUCHTENMODUL



Conversion kit for general lighting fittings without amending the internal wiring. High-power-LED and integral reflector and special optical lens system. Asymmetrical light distribution (escape route lighting with 1 lx) or symmetrical light distribution (area lighting with 0.5 lx).

Version for luminaire installation

MOUNTING



TECHNICAL DATA

| | | | |
|-----------------|---------------------------------|----------------------------|--------------------------------------------------------------|
| Housing: | Aluminium, white (RAL 9010) | Type of protection: | IP20 (electronic and battery component) IP40 (LED module) |
| Cover: | Polycarbonate, white (RAL 9010) | | |



SELF-CONTAINED SUPPLY

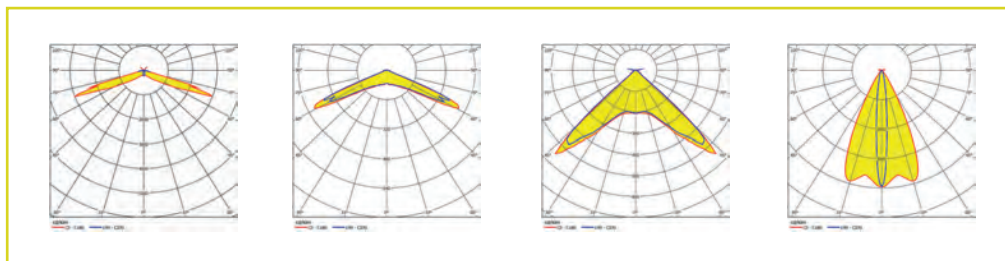
| | |
|------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Mains supply: 198 V–254 V/50 Hz | Ambient temperature: LTO: -20 °C to +50 °C Classic: -10 °C to +40 °C |
| Specification: Maintained or non-maintained mode | Protection class: II |

DECENTRAL SUPPLY

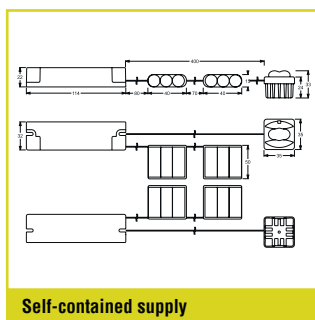
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 24 V +/- 20% DC | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 24 V +/- 20% DC | Protection class: III |

CENTRAL SUPPLY

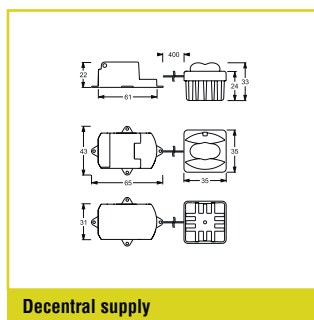
| | |
|-------------------------------------------|-------------------------------------------------|
| Battery supply: 176 V–254 V | Ambient temperature: -20 °C to +40 °C |
| Mains supply: 198 V–254 V/50 Hz | Protection class: II |



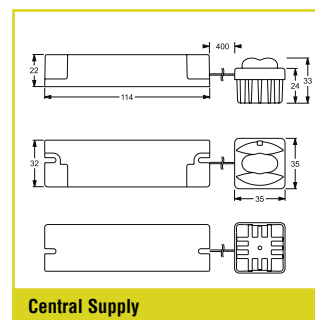
Asymmetric wide beam Symmetric wide beam to 3.5 m Symmetric wide beam to 7 m Asymmetric deep beam



Self-contained supply



Decentral supply



Central Supply



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Φ 8 h | | S~ |
|---------------------|-------------------|----------------------|-----|-------|-------|-------|--|----|
|---------------------|-------------------|----------------------|-----|-------|-------|-------|--|----|

Illumination for escape routes and areas with 3 changeable lenses

| | | | | | | | | |
|-------|-------|-------|---|------------------------|------------------------|-----------------------|------------------------|---------|
| 37087 | 37088 | 37089 | 1 | Escape route 261 lm | Escape route 176 lm | Escape route 42 lm | 2 x LTO 7.2 V / 0.5 Ah | 4.85 VA |
| | | | | Area 255 / 285 lm | Area 147 / 165 lm | Area 41 / 42 lm | | |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | LED | Φ 1 h | Φ 3 h | Autotest | Logica | S~ |
|---------------------|-------------------|----------------------|-----|-------|-------|----------|--------|----|
|---------------------|-------------------|----------------------|-----|-------|-------|----------|--------|----|

Illumination for escape routes and areas with 3 changeable lenses

| | | | | | | | | |
|-------|-------|-------|---|------------------------|------------------------|--------------------|--------------------|------|
| 16769 | 19342 | 19343 | 1 | Escape route 261 lm | Escape route 176 lm | NiMH 7.2V / 1.2 Ah | NiMH 7.2V / 1.2 Ah | 8 VA |
| | | | | Area 255 / 285 lm | Area 172 / 192 lm | | | |

SICURO^{LED} DECENTRAL SUPPLY

| Sicuro24 Order code | LED | Φ | P= |
|---------------------|-----|---|----|
|---------------------|-----|---|----|

Illumination for escape routes and areas with 3 changeable lenses

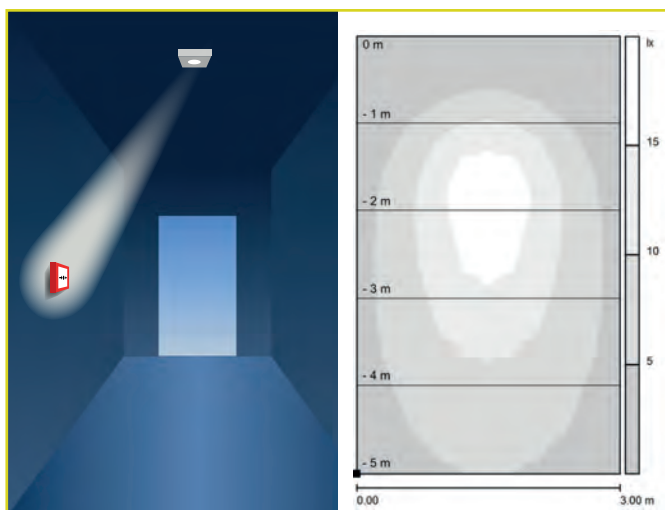
| | | | |
|-------|---|---------------------|-------|
| 32042 | 1 | Escape route 261 lm | 3.8 W |
| | | Area 255 / 285 lm | |

SICURO^S CENTRAL SUPPLY

| Sicuro230 Order code | LED | Φ | S~ | P= |
|----------------------|-----|---|----|----|
|----------------------|-----|---|----|----|

Illumination for escape routes and areas with 3 changeable lenses

| | | | |
|-------|---|---------------------|----------------|
| 31040 | 1 | Escape route 261 lm | 8.3 VA / 4.1 W |
| | | Area 255 / 285 lm | |



Illumination of safety devices

Please order additional equipment separately

| Order code | Description |
|------------|------------------------------------------------------------------------------------------------------|
| F95807 | Deep beam lens (area lighting module) for escape route lighting with mounting heights > 7.5 m |
| F95808 | Deep beam lens (area lighting module) for area lighting with mounting heights > 7.5 m |
| F95815 | Asymmetrical lens (area lighting module) for illumination of the safety devices with 5 lx |



INVERTER LED

Emergency lighting supply unit for operation of LED luminaire with LED module and LED driver with reduced performance in failure of power supply. The luminaire(s) can be connected without changing the internal wiring. Version with separately electronic- and battery module and separately signal LED.

Version for luminaire installation (without housing) and luminaire attachment (with housing)

MOUNTING OPTIONS



TECHNICAL DATA

Housing: Polycarbonate, white (RAL 9007) (luminaire installation)
Polycarbonate, grey (RAL 7035) (luminaire attachment)

Type of protection: IP20 (luminaire installation)
IP65 (luminaire attachment)



SELF-CONTAINED SUPPLY

Mains supply:
198 V–254 V/50 Hz

Specification:
Maintained or
non-maintained mode

Protection class:
II

Ambient temperature:

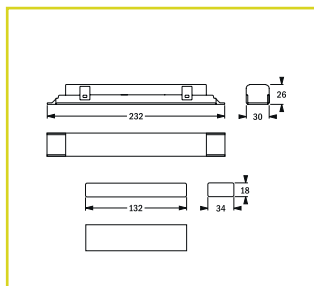
Electronic:
-20 °C to +70 °C
Battery:
LTO: -20 °C to +50 °C
LFP: -10 to +60 °C

LED MODULE SUPPLY

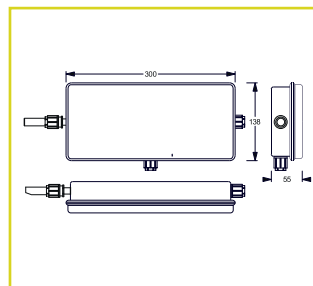
Power:
10 W (1 h)
3.3 W (3 h)
1.25 W (8 h)

Voltage:
20 V to 55 V

Flux:
500 mA



Luminaire installation



Luminaire attachment



SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code | | | | | | |
|-------------------------------------------------|-------------------|----------------------|-----------------------------------------|---------|---------|---------|---------------------|------|
| Luminaire installation and luminaire attachment | | | | | | | | |
| 19390 | 19390 | 19390+19375 | 10 W (1 h) / 3.3 W (3 h) / 1.25 W (8 h) | formula | formula | formula | LTO 14.4 V / 1.2 Ah | 2 VA |
| 19391 | 19391 | 19391+19375 | | | | | LFP 12.8 V / 1.5 Ah | |

FORMULA FOR CALCULATION OF LUMINOUS FLUX SELF-CONTAINED SUPPLY

Operating time 1 h

$$\text{Luminous flux} = \frac{\text{Power}_{1\text{ h}}}{\text{Power}_{\text{LED module}}} \times \text{luminous flux}_{\text{LED module}}$$

Operating time 3 h

$$\text{Luminous flux} = \frac{\text{Power}_{3\text{ h}}}{\text{Power}_{\text{LED module}}} \times \text{luminous flux}_{\text{LED module}}$$

Operating time 8 h

$$\text{Luminous flux} = \frac{\text{Power}_{8\text{ h}}}{\text{Power}_{\text{LED module}}} \times \text{luminous flux}_{\text{LED module}}$$

Please order additional equipment separately

| Order code | Description |
|------------|----------------------------------------|
| RA07 | Additional battery LTO 14.4 V / 1.2 Ah |
| RA08 | Additional battery LFP 12.8 V / 1.5 Ah |
| 19375 | Logica FM module |
| 19376 | Kit for recessed mounting, IP65 |



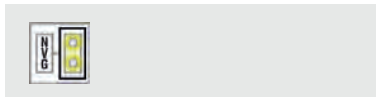
NVG

Emergency lighting supply unit for operation of 1 or 2 luminaires with LED module or low-pressure discharge lamp with electronic / magnetic operating unit. The luminaire(s) can be connected without changing the internal wiring. Version with separate electronics and battery housing. Luminaire(s) can be individually switched on/off during mains operation.

Distance supply unit ▶ luminaire < 500 m

Version for surface wall mounting

MOUNTING OPTIONS



TECHNICAL DATA

Housing: ANM, grey (RAL 7035)
Type of protection: IP32 (battery component)
 IP65 (electronic component)



SELF-CONTAINED SUPPLY

Mains supply:
198 V–254 V/50 Hz

Specification:
Maintained or non-maintained mode

Protection class:
I

Ambient temperature:

Electronic:
0 °C to +40 °C
 Battery:
0 °C to +20 °C

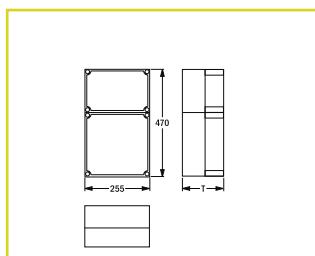
SUPPLY

Luminaire:

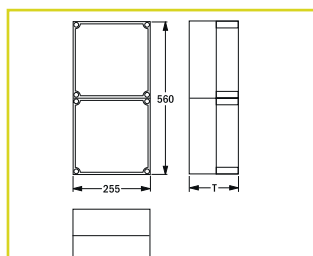
LED module + electronic operating unit
 LED module + magnetic operating unit
 Discharge lamp + electronic operating unit
 Discharge lamp + magnetic operating unit

Power:

max. 1 x 120 W (1 h / 3 h)
 max. 2 x 60 W (1 h / 3 h)







V90800L / V90800L-FM / V90801L /
 V90801L-FM / V90802L / V90802L-FM



V90803L / V90803L-FM /
 V90805L / V90805L-FM

| Order code | Weight | Depth (T) |
|----------------------|--------|-----------|
| V90800L / V90800L-FM | 7 kg | 130 mm |
| V90801L / V90801L-FM | 9 kg | 130 mm |
| V90802L / V90802L-FM | 14 kg | 180 mm |
| V90803L / V90803L-FM | 17 kg | 180 mm |
| V90805L / V90805L-FM | 20 kg | 180 mm |

CLASSIC SELF-CONTAINED SUPPLY

| Autotest Order code | Logica Order code | Logica FM Order code |   |  Autotest / Logica / Logica FM |  |
|------------------------|----------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| V90800L | V90800L | V90800L-FM | table 1 h / 3 h | Pb 12 V / 6.5 Ah | 3 |
| V90801L | V90801L | V90801L-FM | table 1 h / 3 h | Pb 12 V / 13 Ah | 3 |
| V90802L | V90802L | V90802L-FM | table 1 h / 3 h | Pb 12 V / 28 Ah | 3 |
| V90803L | V90803L | V90803L-FM | table 1 h / 3 h | Pb 12 V / 40 Ah | 3 |
| V90805L | V90805L | V90805L-FM | table 1 h / 3 h | Pb 12 V / 55 Ah | 3 |

| Order code | Operating time | Luminaire with LED or discharge lamp and electronic operating unit ¹ | | Luminaire with LED or discharge lamp and magnetic operating unit ¹ | |
|-----------------------|----------------|---------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------|----------------------|
| | | Power consumption | Luminous flux factor | Power consumption | Luminous flux factor |
| V90800L V90800L-FM | 1 h | 1 x 20 W 2 x 10 W | max. 100 % ² | 1 x 20 W 2 x 10 W | 100 % |
| V90800L V90800L-FM | 3 h | | | | |
| V90801L V90801L-FM | 1 h | 1 x 60 W 2 x 30 W | max. 100 % ² | 1 x 60 W 2 x 30 W | 100 % |
| V90801L V90801L-FM | 3 h | 1 x 20 W 2 x 10 W | max. 100 % ² | 1 x 20 W 2 x 10 W | 100 % |
| V90802L V90802L-FM | 1 h | 1 x 100 W 2 x 50 W | max. 100 % ² | 1 x 100 W 2 x 50 W | 100 % |
| V90802L V90802L-FM | 3 h | 1 x 40 W 2 x 20 W | max. 100 % ² | 1 x 40 W 2 x 20 W | 100 % |
| V90803L V90803L-FM | 1 h | 1 x 120 W 2 x 60 W | max. 100 % ² | 1 x 120 W 2 x 60 W | 100 % |
| V90803L V90803L-FM | 3 h | 1 x 70 W 2 x 35 W | max. 100 % ² | 1 x 70 W 2 x 35 W | 100 % |
| V90805L V90805L-FM | 1 h | | | | |
| V90805L V90805L-FM | 3 h | 1 x 120 W 2 x 60 W | max. 100 % ² | 1 x 120 W 2 x 60 W | 100 % |

¹ The electronic operating devices must be suitable for use in safety lighting according to DIN EN 50172. Operation of luminaires with dimmable electronic control gear (DALI) is possible on request. The maximum inrush current or maximum duty cycle must not exceed 60 A and 250 ms.

² Depending on the electronic operating device, also < 100%

³ Depending on affiliated luminous flux

| | | | | | |
|----------|--------------|-----------------|-------------------|-------------|--------------|
| 2750 | Page 95 | 16753 | Page 57 | 19385 | Page 29 |
| 3723 | Page 49 | 16769 | Page 97 | 19386 | Page 29 |
| 3733 | Page 51 / 77 | 16770 | Page 29 | 19387 | Page 29 |
| 4265 | Page 51 | 16771 | Page 29 / 31 | 19390 | Page 99 |
| 4266 | Page 51 / 77 | 16772 | Page 29 / 31 / 55 | 19390+19375 | Page 99 |
| 8380 | Page 95 | 16773 | Page 29 / 31 | 19391 | Page 99 |
| 12187S | Page 75 | 16774 | Page 29 / 31 | 19391+19375 | Page 99 |
| 12187FMS | Page 75 | 16775 | Page 29 / 31 | 20122 | Page 43 |
| 12193 | Page 75 | 16776 | Page 29 / 31 | 29000 | Page 45 |
| 12194 | Page 73 / 75 | 16777 | Page 29 / 31 | 29001 | Page 49 |
| 12198 | Page 75 | 16778 | Page 29 / 31 | 29002 | Page 49 |
| 15015 | Page 71 | 16779 | Page 29 / 31 | 31000 | Page 33 |
| 15030 | Page 43 / 69 | 16780 | Page 29 / 31 | 31001 | Page 33 |
| 15031 | Page 43 / 69 | 16781 | Page 29 / 31 | 31002 | Page 33 |
| 15032 | Page 69 | 16782 | Page 29 / 31 | 31003 | Page 33 |
| 15033 | Page 69 | 16783 | Page 29 / 31 | 31004 | Page 39 |
| 15036 | Page 73 | 16784 | Page 29 / 31 | 31005 | Page 39 |
| 15037 | Page 73 | 16785 | Page 29 / 31 | 31006 | Page 39 |
| 16225 | Page 51 / 77 | 16786 | Page 29 / 31 | 31007 | Page 39 |
| 16226 | Page 51 / 77 | 16787 | Page 29 / 31 | 31008 | Page 39 |
| 16233 | Page 51 | 16788 | Page 31 | 31009 | Page 39 |
| 16234 | Page 51 | 16789 | Page 31 | 31010 | Page 65 |
| 16235 | Page 51 | 17223 | Page 26 | 31011 | Page 37 |
| 16237 | Page 51 | 19040 | Page 45 / 73 | 31012 | Page 37 |
| 16300 | Page 25 | 19041 | Page 45 / 73 | 31013 | Page 37 |
| 16300-B | Page 25 | 19044 | Page 45 | 31014 | Page 37 |
| 16302 | Page 26 | 19045 | Page 45 / 73 | 31015 | Page 37 |
| 16305 | Page 25 | 19048 | Page 45 / 73 | 31016 | Page 37 |
| 16305-B | Page 25 | 19049 | Page 45 / 73 | 31017 | Page 63 |
| 16309 | Page 25 | 19064 | Page 43 | 31018 | Page 49 |
| 16319 | Page 26 | 19239 | Page 45 | 31019 | Page 49 |
| 16700 | Page 29 / 31 | 19245 | Page 45 | 31020 | Page 41 / 67 |
| 16701 | Page 29 | 19270 | Page 45 | 31021 | Page 41 |
| 16702 | Page 29 | 19276 | Page 45 | 31022 | Page 41 / 67 |
| 16703 | Page 29 | 19296 | Page 45 / 73 | 31023 | Page 41 |
| 16704 | Page 29 | 19296-3 h | Page 45 / 73 | 31024 | Page 53 |
| 16705 | Page 29 | 19296-8 h | Page 45 / 73 | 31025 | Page 47 |
| 16706 | Page 29 | 19296+15036 | Page 45 / 73 | 31026 | Page 47 |
| 16707 | Page 29 | 19296-3 h+15036 | Page 45 / 73 | 31027 | Page 47 |
| 16708 | Page 29 | 19296-8 h+15036 | Page 45 / 73 | 31028 | Page 89 |
| 16709 | Page 29 | 19296+15037 | Page 45 / 73 | 31029 | Page 47 |
| 16710 | Page 29 | 19296-3 h+15037 | Page 45 / 73 | 31030 | Page 89 |
| 16711 | Page 29 | 19296-8 h+15037 | Page 45 / 73 | 31031 | Page 83 |
| 16917M | Page 49 | 19270 + RA03 | Page 73 | 31032 | Page 29 |
| 16733 | Page 55 | 19342 | Page 97 | 31033 | Page 29 |
| 16734 | Page 55 | 19343 | Page 97 | 31034 | Page 29 |
| 16735 | Page 55 | 19346 | Page 55 | 31035 | Page 29 |
| 16736 | Page 55 | 19375 | Page 99 | 31036 | Page 55 |
| 16737 | Page 55 | 19376 | Page 99 | 31037 | Page 55 |
| 16748 | Page 57 | 19380 | Page 29 | 31038 | Page 57 |
| 16749 | Page 57 | 19381 | Page 29 | 31039 | Page 57 |
| 16750 | Page 57 | 19382 | Page 29 | 31040 | Page 97 |
| 16751 | Page 57 | 19383 | Page 29 | 31041 | Page 59 |
| 16752 | Page 57 | 19384 | Page 29 | 31042 | Page 59 |

| | | | | | |
|-------|---------|-------|--------------|-------|--------------|
| 31043 | Page 59 | 31098 | Page 55 / 77 | 32033 | Page 29 |
| 31044 | Page 59 | 31099 | Page 75 | 32034 | Page 29 |
| 31045 | Page 59 | 31100 | Page 87 | 32035 | Page 29 |
| 31046 | Page 59 | 31101 | Page 87 | 32036 | Page 55 |
| 31047 | Page 59 | 31102 | Page 87 | 32037 | Page 55 |
| 31048 | Page 59 | 31103 | Page 93 | 32038 | Page 57 |
| 31049 | Page 61 | 31104 | Page 31 | 32039 | Page 57 |
| 31050 | Page 61 | 31105 | Page 31 | 32040 | Page 57 |
| 31051 | Page 61 | 31106 | Page 31 | 32041 | Page 57 |
| 31052 | Page 61 | 31107 | Page 31 | 32042 | Page 97 |
| 31053 | Page 69 | 31108 | Page 31 | 32043 | Page 59 |
| 31054 | Page 43 | 31109 | Page 31 | 32044 | Page 59 |
| 31056 | Page 85 | 31110 | Page 31 | 32045 | Page 59 |
| 31057 | Page 85 | 31111 | Page 31 | 32046 | Page 59 |
| 31058 | Page 79 | 31114 | Page 71 | 32047 | Page 59 |
| 31059 | Page 79 | 31115 | Page 71 | 32048 | Page 59 |
| 31060 | Page 79 | 31124 | Page 45 / 73 | 32049 | Page 59 |
| 31061 | Page 79 | 31151 | Page 35 | 32050 | Page 59 |
| 31062 | Page 79 | 31152 | Page 35 | 32051 | Page 61 |
| 31063 | Page 79 | 31153 | Page 35 | 32052 | Page 61 |
| 31064 | Page 79 | 31154 | Page 91 | 32053 | Page 61 |
| 31065 | Page 79 | 31155 | Page 91 | 32054 | Page 61 |
| 31066 | Page 79 | 32000 | Page 33 | 32055 | Page 43 |
| 31067 | Page 79 | 32001 | Page 33 | 32057 | Page 85 |
| 31068 | Page 79 | 32002 | Page 33 | 32058 | Page 85 |
| 31069 | Page 79 | 32003 | Page 33 | 32059 | Page 79 |
| 31070 | Page 79 | 32004 | Page 39 | 32060 | Page 79 |
| 31071 | Page 79 | 32005 | Page 39 | 32061 | Page 79 |
| 31072 | Page 79 | 32006 | Page 39 | 32062 | Page 79 |
| 31073 | Page 79 | 32007 | Page 39 | 32063 | Page 79 |
| 31074 | Page 79 | 32008 | Page 39 | 32064 | Page 79 |
| 31075 | Page 79 | 32009 | Page 39 | 32065 | Page 81 |
| 31076 | Page 79 | 32010 | Page 65 | 32066 | Page 81 |
| 31077 | Page 79 | 32011 | Page 37 | 32067 | Page 81 |
| 31078 | Page 79 | 32012 | Page 37 | 32068 | Page 81 |
| 31079 | Page 79 | 32013 | Page 37 | 32069 | Page 51 / 77 |
| 31080 | Page 79 | 32014 | Page 37 | 32071 | Page 87 |
| 31081 | Page 79 | 32015 | Page 37 | 32072 | Page 87 |
| 31082 | Page 81 | 32016 | Page 37 | 32073 | Page 87 |
| 31083 | Page 81 | 32017 | Page 63 | 32074 | Page 93 |
| 31084 | Page 81 | 32018 | Page 49 | 32075 | Page 31 |
| 31085 | Page 81 | 32019 | Page 49 | 32076 | Page 31 |
| 31086 | Page 81 | 32020 | Page 41 / 67 | 32077 | Page 31 |
| 31087 | Page 81 | 32021 | Page 41 | 32078 | Page 31 |
| 31088 | Page 81 | 32022 | Page 41 / 67 | 32079 | Page 31 |
| 31089 | Page 81 | 32024 | Page 53 | 32080 | Page 31 |
| 31090 | Page 81 | 32025 | Page 47 | 32081 | Page 31 |
| 31091 | Page 81 | 32026 | Page 47 | 32082 | Page 31 |
| 31092 | Page 81 | 32027 | Page 47 | 32084 | Page 71 |
| 31093 | Page 81 | 32028 | Page 89 | 32089 | Page 75 |
| 31094 | Page 81 | 32029 | Page 47 | 32092 | Page 69 |
| 31095 | Page 81 | 32030 | Page 89 | 32094 | Page 45 / 73 |
| 31096 | Page 81 | 32031 | Page 83 | 32098 | Page 35 |
| 31097 | Page 81 | 32032 | Page 29 / 41 | 32099 | Page 35 |

ORDER CODES

| | | | | | |
|--------------|---------|--------------|---------|--------------|---------|
| 32100 | Page 35 | 36036 | Page 37 | 36057 | Page 49 |
| 32105 | Page 91 | 36037 | Page 37 | 36058 | Page 49 |
| 32106 | Page 91 | 36038 | Page 37 | 36059 | Page 49 |
| 36194 | Page 31 | 36039 | Page 37 | 36084 | Page 53 |
| 36195 | Page 31 | 36040 | Page 37 | 36085 | Page 53 |
| 36196 | Page 31 | 36041 | Page 37 | 36086 | Page 53 |
| 36197 | Page 31 | 36042 | Page 37 | 36090 | Page 59 |
| 36198 | Page 31 | 36043 | Page 37 | 36091 | Page 59 |
| 36199 | Page 31 | 36044 | Page 37 | 36092 | Page 59 |
| 36188 | Page 31 | 36045 | Page 37 | 36096 | Page 59 |
| 36189 | Page 31 | 36046 | Page 37 | 36097 | Page 59 |
| 36190 | Page 31 | 36047 | Page 37 | 36098 | Page 59 |
| 36191 | Page 31 | 36045 | Page 37 | 36087 | Page 59 |
| 36192 | Page 31 | 36046 | Page 37 | 36088 | Page 59 |
| 36193 | Page 31 | 36047 | Page 37 | 36089 | Page 59 |
| 36182 | Page 31 | 36048 | Page 37 | 36087 | Page 59 |
| 36183 | Page 31 | 36049 | Page 37 | 36088 | Page 59 |
| 36184 | Page 31 | 36050 | Page 37 | 36089 | Page 59 |
| 36185 | Page 31 | 36012 | Page 39 | 36093 | Page 59 |
| 36186 | Page 31 | 36013 | Page 39 | 36094 | Page 59 |
| 36187 | Page 31 | 36014 | Page 39 | 36095 | Page 59 |
| 36176 | Page 31 | 36015 | Page 39 | 36114 | Page 61 |
| 36177 | Page 31 | 36016 | Page 39 | 36115 | Page 61 |
| 36178 | Page 31 | 36017 | Page 39 | 36116 | Page 61 |
| 36176 | Page 31 | 36018 | Page 39 | 36120 | Page 61 |
| 36177 | Page 31 | 36019 | Page 39 | 36121 | Page 61 |
| 36178 | Page 31 | 36020 | Page 39 | 36122 | Page 61 |
| 36179 | Page 31 | 36021 | Page 39 | 36111 | Page 61 |
| 36180 | Page 31 | 36022 | Page 39 | 36112 | Page 61 |
| 36181 | Page 31 | 36023 | Page 39 | 36113 | Page 61 |
| 36000 | Page 33 | 36024 | Page 39 | 36117 | Page 61 |
| 36001 | Page 33 | 36025 | Page 39 | 36118 | Page 61 |
| 36002 | Page 33 | 36026 | Page 39 | 36119 | Page 61 |
| 36006 | Page 33 | 36027 | Page 39 | 36051 | Page 63 |
| 36007 | Page 33 | 36028 | Page 39 | 36052 | Page 63 |
| 36008 | Page 33 | 36029 | Page 39 | 36053 | Page 63 |
| 36006 | Page 33 | 36060 | Page 41 | 36030 | Page 65 |
| 36004 | Page 33 | 36061 | Page 41 | 36031 | Page 65 |
| 36005 | Page 33 | 36062 | Page 41 | 36032 | Page 65 |
| 36009 | Page 33 | 36066 | Page 41 | 36060 | Page 67 |
| 36010 | Page 33 | 36067 | Page 41 | 36061 | Page 67 |
| 36011 | Page 33 | 36068 | Page 41 | 36062 | Page 67 |
| 36238 | Page 35 | 36072 | Page 41 | 36072 | Page 67 |
| 36239 | Page 35 | 36073 | Page 41 | 36073 | Page 67 |
| 36240 | Page 35 | 36074 | Page 41 | 36074 | Page 67 |
| 36241 | Page 35 | 36078 | Page 41 | 36138 | Page 79 |
| 36242 | Page 35 | 36073 | Page 41 | 36139 | Page 79 |
| 36243 | Page 35 | 36074 | Page 41 | 36140 | Page 79 |
| 36244 | Page 35 | 36078 | Page 41 | 36144 | Page 79 |
| 36245 | Page 35 | 36079 | Page 41 | 36145 | Page 79 |
| 36246 | Page 35 | 36080 | Page 41 | 36146 | Page 79 |
| 36033 | Page 37 | 36054 | Page 49 | 36150 | Page 79 |
| 36034 | Page 37 | 36055 | Page 49 | 36151 | Page 79 |
| 36035 | Page 37 | 36056 | Page 49 | 36152 | Page 79 |

| | | | | | |
|--------------|---------|--------------|--------------|--------------|--------------|
| 36135 | Page 79 | 37027 | Page 39 | 37081 | Page 57 |
| 36136 | Page 79 | 37028 | Page 39 | 37082 | Page 57 |
| 36137 | Page 79 | 37029 | Page 39 | 37083 | Page 57 |
| 36141 | Page 79 | 37030 | Page 65 | 37084 | Page 57 |
| 36142 | Page 79 | 37031 | Page 65 | 37085 | Page 57 |
| 36143 | Page 79 | 37032 | Page 65 | 37086 | Page 57 |
| 36147 | Page 79 | 37033 | Page 37 | 37087 | Page 97 |
| 36148 | Page 79 | 37034 | Page 37 | 37088 | Page 97 |
| 36149 | Page 79 | 37035 | Page 37 | 37089 | Page 97 |
| 36156 | Page 81 | 37036 | Page 37 | 37090 | Page 43 / 69 |
| 36157 | Page 81 | 37037 | Page 37 | 37091 | Page 43 /69 |
| 36158 | Page 81 | 37038 | Page 37 | 37092 | Page 43 /69 |
| 36162 | Page 81 | 37039 | Page 37 | 37096 | Page 85 |
| 36163 | Page 81 | 37040 | Page 37 | 37097 | Page 85 |
| 36164 | Page 81 | 37041 | Page 37 | 37098 | Page 85 |
| 36153 | Page 81 | 37042 | Page 37 | 37099 | Page 85 |
| 36154 | Page 81 | 37043 | Page 37 | 37100 | Page 85 |
| 36155 | Page 81 | 37044 | Page 37 | 37101 | Page 85 |
| 36159 | Page 81 | 37045 | Page 37 | 37102 | Page 79 |
| 36160 | Page 81 | 37046 | Page 37 | 37103 | Page 79 |
| 36161 | Page 81 | 37047 | Page 37 | 37104 | Page 79 |
| 36123 | Page 85 | 37048 | Page 37 | 37105 | Page 79 |
| 36124 | Page 85 | 37049 | Page 37 | 37106 | Page 79 |
| 36125 | Page 85 | 37050 | Page 37 | 37107 | Page 79 |
| 36129 | Page 85 | 37051 | Page 63 | 37108 | Page 79 |
| 36130 | Page 85 | 37052 | Page 63 | 37109 | Page 79 |
| 36131 | Page 85 | 37053 | Page 63 | 37110 | Page 79 |
| 37000 | Page 33 | 37054 | Page 49 | 37111 | Page 79 |
| 37001 | Page 33 | 37055 | Page 49 | 37112 | Page 79 |
| 37002 | Page 33 | 37056 | Page 49 | 37113 | Page 79 |
| 37003 | Page 33 | 37057 | Page 49 | 37114 | Page 79 |
| 37004 | Page 33 | 37058 | Page 49 | 37115 | Page 79 |
| 37005 | Page 33 | 37059 | Page 49 | 37116 | Page 79 |
| 37006 | Page 33 | 37060 | Page 41 / 67 | 37117 | Page 79 |
| 37007 | Page 33 | 37061 | Page 41 / 67 | 37118 | Page 79 |
| 37008 | Page 33 | 37062 | Page 41 / 67 | 37119 | Page 79 |
| 37009 | Page 33 | 37063 | Page 41 | 37120 | Page 81 |
| 37010 | Page 33 | 37064 | Page 41 | 37121 | Page 81 |
| 37011 | Page 33 | 37065 | Page 41 | 37122 | Page 81 |
| 37012 | Page 39 | 37066 | Page 41 / 67 | 37123 | Page 81 |
| 37013 | Page 39 | 37067 | Page 41 / 67 | 37124 | Page 81 |
| 37014 | Page 39 | 37068 | Page 41 / 67 | 37125 | Page 81 |
| 37015 | Page 39 | 37069 | Page 41 | 37126 | Page 81 |
| 37016 | Page 39 | 37070 | Page 41 | 37127 | Page 81 |
| 37017 | Page 39 | 37071 | Page 41 | 37128 | Page 81 |
| 37018 | Page 39 | 37072 | Page 53 | 37129 | Page 81 |
| 37019 | Page 39 | 37073 | Page 53 | 37130 | Page 81 |
| 37020 | Page 39 | 37074 | Page 53 | 37131 | Page 81 |
| 37021 | Page 39 | 37075 | Page 55 | 37132 | Page 31 |
| 37022 | Page 39 | 37076 | Page 55 | 37133 | Page 31 |
| 37023 | Page 39 | 37077 | Page 55 | 37134 | Page 31 |
| 37024 | Page 39 | 37078 | Page 55 | 37135 | Page 31 |
| 37025 | Page 39 | 37079 | Page 55 | 37136 | Page 31 |
| 37026 | Page 39 | 37080 | Page 55 | 37137 | Page 31 |

| | | | | | |
|-----------------|--------------|---------|--------------|----------|------------------------|
| 37139 | Page 31 | E16135M | Page 39 / 91 | E16720M | Page 37 |
| 37140 | Page 31 | E16136M | Page 39 / 91 | E16721M | Page 37 |
| 37141 | Page 31 | E16241 | Page 39 / 91 | E16722M | Page 37 |
| 37142 | Page 31 | E16242 | Page 39 / 91 | E16723 | Page 37 |
| 37143 | Page 31 | E16251 | Page 39 / 91 | E16724 | Page 37 |
| 37144 | Page 31 | E16260M | Page 33 | E16725M | Page 37 |
| 37145 | Page 31 | E16261M | Page 33 | E16726M | Page 37 |
| 37146 | Page 31 | E16263M | Page 33 | E16727M | Page 37 |
| 37147 | Page 31 | E16310M | Page 33 | E16728M | Page 37 |
| 37148 | Page 31 | E16311M | Page 33 | E16729M | Page 37 |
| 37149 | Page 31 | E16318M | Page 33 | E16730M | Page 37 |
| 37150 | Page 31 | E16319M | Page 33 | E16731M | Page 37 |
| 37151 | Page 31 | E16328M | Page 33 | E16733M | Page 37 |
| 37152 | Page 31 | E16435 | Page 33 | E16734M | Page 37 |
| 37153 | Page 31 | E16436 | Page 33 | E16735M | Page 37 |
| 37154 | Page 31 | E16437 | Page 33 | E16736M | Page 37 |
| 37155 | Page 31 | E16442 | Page 37 | E16910M | Page 93 |
| 37183 | Page 59 | E16443 | Page 37 | E16911M | Page 93 |
| 37184 | Page 59 | E16444 | Page 37 | E16912M | Page 93 |
| 37185 | Page 59 | E16500M | Page 35 | E16913M | Page 93 |
| 37186 | Page 59 | E16501M | Page 35 | E16914M | Page 93 |
| 37187 | Page 59 | E16502M | Page 35 | E16915M | Page 93 |
| 37188 | Page 59 | E16604M | Page 39 / 91 | F15325M | Page 53 |
| 37189 | Page 59 | E16605M | Page 39 / 91 | F15326M | Page 53 |
| 37190 | Page 59 | E16606M | Page 39 / 91 | F15327M | Page 53 |
| 37191 | Page 59 | E16607 | Page 39 / 91 | F15328M | Page 53 |
| 37192 | Page 59 | E16608M | Page 39 / 91 | F15329M | Page 53 |
| 37193 | Page 59 | E16609M | Page 39 / 91 | F15330M | Page 53 |
| 37194 | Page 59 | E16610M | Page 39 / 91 | F15331M | Page 53 |
| 37207 | Page 61 | E16611 | Page 39 / 91 | F15332M | Page 53 |
| 37208 | Page 61 | E16620M | Page 39 / 91 | F15337MU | Page 47 / 89 |
| 37209 | Page 61 | E16621M | Page 39 / 91 | F15337MR | Page 47 / 89 |
| 37210 | Page 61 | E16622M | Page 39 / 91 | F15337ML | Page 47 / 89 |
| 37211 | Page 61 | E16623M | Page 39 / 91 | F15337MO | Page 47 / 89 |
| 37212 | Page 61 | E16640M | Page 39 / 91 | F15338MU | Page 47 / 89 |
| 37214 | Page 61 | E16642M | Page 39 / 91 | F15338MR | Page 47 / 89 |
| 37215 | Page 61 | E16641M | Page 39 / 91 | F15338ML | Page 47 / 89 |
| 37216 | Page 61 | E16643M | Page 39 / 91 | F15338MO | Page 47 / 89 |
| 37217 | Page 61 | E16645M | Page 39 | F90300 | Page 25 |
| 37218 | Page 61 | E16646M | Page 39 | F95032K | Page 39 / 49 / 65 / 91 |
| 37219 | Page 87 | E16647M | Page 39 | F95055 | Page 39 / 91 |
| 37220 | Page 87 | E16648M | Page 39 | F95056 | Page 39 / 91 |
| 37221 | Page 87 | E16700M | Page 41 | F95057 | Page 39 / 45 / 91 |
| 37222 | Page 87 | E16701M | Page 41 | F95067 | Page 39 / 45 / 91 |
| 37223 | Page 87 | E16710M | Page 37 | F95070 | Page 39 / 91 |
| 37224 | Page 87 | E16711M | Page 37 | F95109PK | Page 47 / 89 |
| E16040M-KIT-F65 | Page 45 | E16712M | Page 37 | F95109PR | Page 47 / 89 |
| E16041M-KIT-F65 | Page 45 | E16713 | Page 37 | F95109PS | Page 47 / 89 |
| E16042M-KIT-F65 | Page 45 | E16714 | Page 37 | F95109P | Page 47 / 89 |
| E16043M-KIT-F65 | Page 45 | E16715M | Page 37 | F95198 | Page 35 |
| E16045M-KIT-F65 | Page 45 | E16716M | Page 37 | F95199 | Page 35 |
| E16129M | Page 33 | E16717M | Page 37 | F95210 | Page 53 |
| E16132M | Page 33 | E16718 | Page 37 | F95400 | Page 39 / 53 / 91 |
| E16134M | Page 39 / 91 | E16719 | Page 37 | F95401 | Page 39 / 91 |

| | | | |
|-----------------------|------------------------|-------------------|----------|
| F95406 | Page 53 | F95944 | Page 31 |
| F95510 | Page 49 | F95945 | Page 33 |
| F95511 | Page 49 | F95946 | Page 33 |
| F95512 | Page 49 | F95947 | Page 33 |
| F95600 | Page 39 / 45 / 53 / 91 | F95948 | Page 33 |
| F95601 | Page 39 / 45 / 53 / 91 | F95949 | Page 33 |
| F95602 | Page 39 / 45 / 53 / 91 | F95950 | Page 33 |
| F95603 | Page 41 | F95951 | Page 33 |
| F95604 | Page 41 | F95952 | Page 33 |
| F95605 | Page 41 | F95953 | Page 33 |
| F95606 | Page 41 | F95954 | Page 33 |
| F95607 | Page 41 / 67 | F95955 | Page 33 |
| F95608 | Page 41 | F95956 | Page 33 |
| F95609 | Page 41 | F95957 | Page 33 |
| F95610 | Page 41 | F95958 | Page 33 |
| F95611 | Page 41 | F95959 | Page 33 |
| F95612 | Page 41 | F95960 | Page 33 |
| F95613 | Page 41 | F95961 | Page 45 |
| F95700 | Page 49 | G31305 | Page 26 |
| F95714 | Page 37 | RA03 | Page 73 |
| F95717 | Page 37 | RA07 | Page 99 |
| F95718 | Page 37 | RA08 | Page 99 |
| F95719 | Page 37 | R2436SA | Page 45 |
| F95720 | Page 37 | SWB16311 | Page 27 |
| F95721 | Page 37 | V90800L | Page 101 |
| F95722 | Page 37 | V90800L-FM | Page 101 |
| F95723 | Page 37 | V90801L | Page 101 |
| F95724 | Page 37 / 63 | V90801L-FM | Page 101 |
| F95729 | Page 37 | V90802L | Page 101 |
| F95803 | Page 55 / 57 | V90802L-FM | Page 101 |
| F95804 | Page 55 / 57 | V90803L | Page 101 |
| F95806-RAL9003 | Page 59 | V90803L-FM | Page 101 |
| F95806-INOX | Page 59 | V90805L | Page 101 |
| F95807 | Page 55 / 57 / 97 | V90805L-FM | Page 101 |
| F95808 | Page 55 / 57 / 97 | | |
| F95811 | Page 55 / 57 | | |
| F95812 | Page 55 / 57 | | |
| F95813 | Page 57 | | |
| F95814 | Page 57 | | |
| F95815 | Page 55 / 57 / 97 | | |
| F95900 | Page 35 | | |
| F95901 | Page 35 | | |
| F95902 | Page 35 | | |
| F95903 | Page 35 | | |
| F95904 | Page 35 | | |
| F95905 | Page 35 | | |
| F95906 | Page 35 | | |
| F95914 | Page 35 | | |
| F95915 | Page 35 | | |
| F95917 | Page 35 | | |
| F95940 | Page 85 | | |
| F95941 | Page 85 | | |
| F95942 | Page 45 / 73 | | |
| F95943 | Page 45 / 73 | | |

| | | | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|-------------------|
|  | Exit sign luminaire surface wall mounting |  | Explosion protected |  | Wireless function |
|  | Exit sign luminaire recessed wall mounting |  | Stable against chemical stress | | |
|  | Exit sign luminaire surface ceiling mounting |  | Color temperature | | |
|  | Exit sign luminaire recessed ceiling mounting |  | Color reproduction | | |
|  | Exit sign luminaire wire suspension |  | Type of battery / battery capacity | | |
|  | Exit sign luminaire suspension rod (round) |  | Number of LEDs | | |
|  | Exit sign luminaire suspension rod (rectangular) |  | LED light performance | | |
|  | Exit sign luminaire bracket suspension |  | LED light performance DC | | |
|  | Safety luminaire for escape route lighting |  | LED light performance AC | | |
|  | Safety luminaire surface wall mounting |  | LED light luminous flux | | |
|  | Safety luminaire recessed wall mounting |  | Luminous flux | | |
|  | Safety luminaire recessed step mounting |  | LED lamp power | | |
|  | Safety luminaire surface ceiling mounting |  | LED lamp luminous flux | | |
|  | Safety luminaire recessed ceiling mounting |  | Degree of protection IP | | |
|  | Safety luminaire surface ceiling mounting (asymmetric) |  | Impact resistance IK | | |
|  | Safety luminaire wire suspension |  | Stainless steel | | |
|  | Combined exit sign and safety luminaire surface wall mounting |  | Electronic operating unit | | |
|  | Combined exit sign and safety luminaire recessed wall mounting |  | Conventional operating unit | | |
|  | Combined exit sign and safety luminaire wire suspension |  | T5 lamp | | |
|  | Combined exit sign and safety luminaire suspension rod |  | T8 lamp | | |
|  | Combined exit sign and emergency luminaire suspension rod (rectangular) |  | TC-L lamp | | |
|  | Combined exit sign and emergency luminaire bracket suspension |  | Operating time 1 h / 3 h / 8 h | | |
|  | Exit sign luminaire Erkennungsweite |  | External emergency lighting module | | |
|  | Safety luminaire light distance |  | Internal emergency lighting module | | |
|  | Stable against UV |  | Lighting module | | |

Disclaimer

Beghelli PRÄZISA GmbH is constantly developing and improving the product range. All descriptions, illustrations, drawings and specifications present only general particulars and shall not form part of any contract. The right is reserved to change specifications without prior notification or public announcement.

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