

sceneCOM L, XL

sceneCOM L, XL – multi-channel lighting controller

Product description

- Independent lighting control for up to 192 DALI control gears on 3 DALI lines
- Simple setup via WEB interface
- Cross DALI line control
- DALI emergency lighting control gear test scheduling and monitoring (with sceneCOM XL EM and sceneCOM XL EM Bac, up to 50 emergency gears)
- Complying with IEC 62034
- 5-year guarantee

Housing properties

- Casing: polycarbonate, white
- Type of protection IP20
- DIN rail mounting

Interfaces

- 3 DALI lines
- BACnet interface (sceneCOM XL EM Bac)
- Terminal blocks: screw terminals

Functions

- Addressing wizard
- Presence linking
- Local and downloadable backup
- Freely programmable daily scheduling with calendar function
- Self-contained emergency luminaires
- Freely programmable shows
- RGB and Tunable White
- Scenes and zones



Wiring diagrams and installation examples, page 5

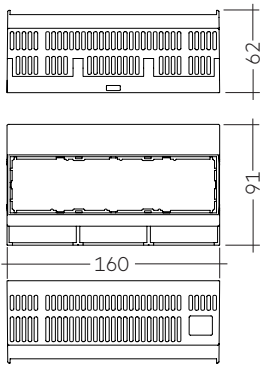


sceneCOM L, XL

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Technical data

| | |
|--|---|
| Rated supply voltage | 110 – 240 V |
| Mains frequency | 50 / 60 Hz |
| Power consumption | < 20 W |
| Ethernet interface | 1 x RJ45 |
| DALI interface | 3 x |
| Max. current per channel | 240 mA |
| Ethernet port | 1 x 10/100 Mbit/s |
| Status indicators LED | Device status, DALI status |
| Operating Temperature at upright mounted | 0 ... +50°C |
| Operating Temperature at flat mounted | 0 ... +40°C |
| Mounting | DIN rail mounting, 35 mm |
| Casing Material | PC, halogen-free polycarbonate, non-flammable |
| Type of Protection | IP20 |
| Dimensions L x W x H | 160 x 91 x 62 mm |



Ordering data

| Type | Article number | Packaging carton | Weight per pcs. |
|--------------------|----------------|------------------|-----------------|
| sceneCOM L | 28002680 | 36 pc(s). | 0.37 kg |
| sceneCOM XL | 28002681 | 36 pc(s). | 0.37 kg |
| sceneCOM XL EM | 28002682 | 36 pc(s). | 0.37 kg |
| sceneCOM XL EM Bac | 28002683 | 36 pc(s). | 0.37 kg |



ACCES-
SORIES

sceneCOM UPB4

Product description

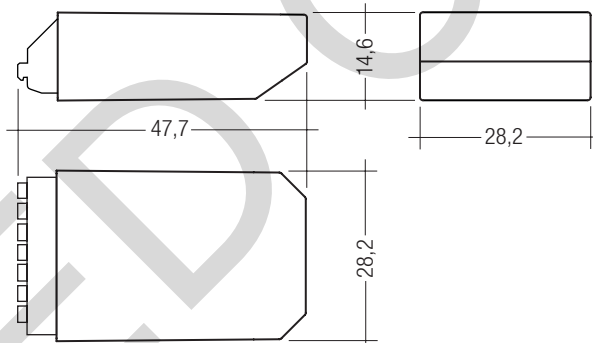
DALI input controller

- 4 independent inputs for floating contacts
- For connecting standard momentary-action switch or switches
- Multiple UPB4s possible on the DALI line
- Power supply via DALI line
- Connection wires according to the terminal colours with 25 cm length included
- 5-year guarantee



Technical data

| | |
|---------------------------|---|
| Supply via | DALI cable |
| Current draw | 6 mA |
| Input | 4 momentary-action switches |
| Output | DALI |
| Ambient temperature t_a | 0 ... +60 °C |
| Storage temperature | -25 ... +80 °C |
| Turn on time | ≤ 6 s |
| Humidity | 20 ... 90 % (non-condensing) |
| Type of protection | IP20 |
| Mounting | Mounting box 60 x 61 mm (ø x D) |
| Casing material | PC, halogen-free polycarbonate, non-flammable |
| Dimension L x W x H | 47,7 x 28,2 x 14,6 mm |



Ordering data

| Type | Article number | Packaging, carton | Weight per pc. |
|---------|----------------|-------------------|----------------|
| UPB4 sC | 28002684 | 125 pc(s). | 0.012 kg |

ACCES-
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basicDIM DGC Sensor 5DPI 14f

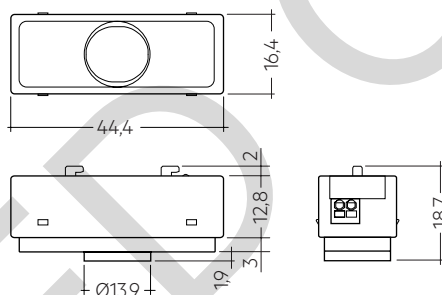
Product description

- Light measurement and motion detection
- Can be remote controlled
- Light measurement and motion detection can be deactivated

Technical data

| | |
|--|----------------|
| Supply via | DALI cable |
| Current draw | 6 mA |
| Ø of detection range, mounted at a height of 2.5 m | 4.5 m |
| Swivel design | no |
| Detection angle | 84° |
| Light measurement at the sensor head ① | 10 – 650 lx |
| Infra-red control range | 5 m |
| Max. mounting height | 5 m |
| Operating temperature | 0 ... +50 °C |
| Storage temperature | -25 ... +55 °C |
| Type of protection | IP20 |

① The measured value at the sensor head corresponds to approx. 15 to 2,000 lux on the surface measured.



Ordering data

| Type | Article number | Packaging, carton | Weight per pc. |
|---|----------------|-------------------|----------------|
| basicDIM DGC Sensor 5DPI 14f Luminaire installation | 28000933 | 40 pc(s). | 0.06 kg |
| basicDIM DGC Sensor 5DPI 14f black Luminaire installation | 28001696 | 40 pc(s). | 0.06 kg |

ACCES-
SORIES

5DPI 14f Mounting Kit

Product description

- Mounting frame for attaching all 5DP 14f sensor directly to the luminaire housing
- Shutter for preventing movement detection in one direction
- Glow wire test with 750 °C according to EN 61347-1

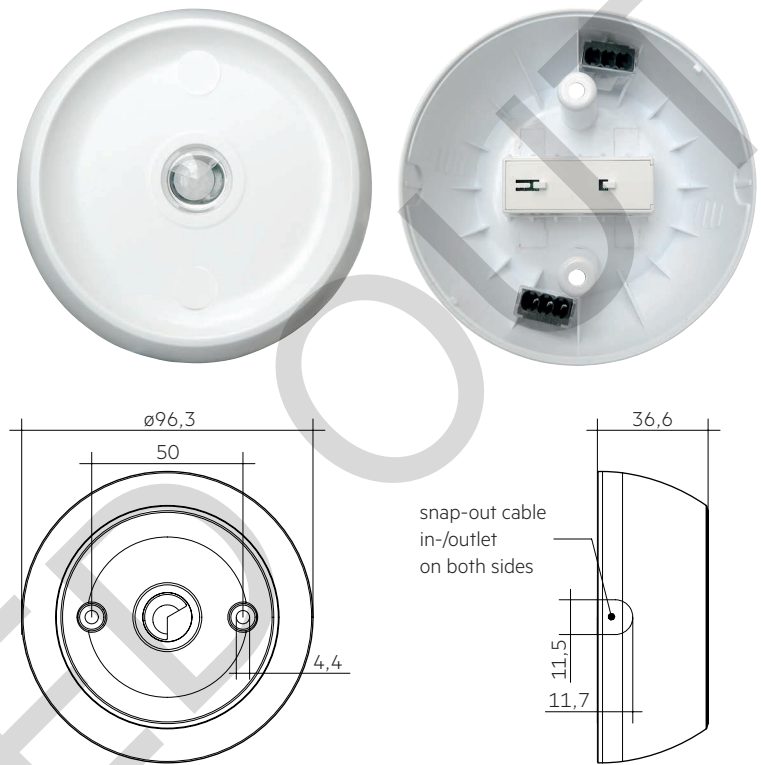


Ordering data

| Type | Article number | Packaging carton | Weight per pc. |
|-----------------------------|----------------|------------------|----------------|
| 5DPI 14f mounting kit | 28001558 | 100 pc(s). | 0.004 kg |
| 5DPI 14f mounting kit black | 28001575 | 100 pc(s). | 0.004 kg |

Product description

- Mounting frame for wired 5DP 14f sensors allowing direct mounting to the ceiling
- Easy „click in“ installation of the sensor
- IP20
- Casing: plastic, white
- UV stabilized plastic
- DALI MSensor 5DPI 14 is powered via DALI circuit, basicDIM DGC Sensor 5DPI 14f powered via control unit
- Optional shutter for reduction of movement detection area allowing to decrease the movement detection area from 360° to 240°
- Mounting kit with screws and decorative plugs
- 0.5 mm wiring for the sensor
- Two 3 x 1.5 mm² clamps with cable management (2 entry points on oppsite sides)
- Glow wire test with 750 °C according to EN 61347-1



Ordering data

| Type | Article number | Packaging carton | Weight per pc. |
|------------------------------|----------------|------------------|----------------|
| ACU Sensor Housing 14rs IP20 | 28001872 | 57 pc(s). | 0.054 kg |

Product description

- Light measurement and motion detection
- Can be remote controlled
- Light measurement and motion detection can be deactivated

Technical data

| | |
|--|----------------|
| Ø of detection range, mounted at a height of 2.5 m | 4.5 m |
| Swivel design | no |
| Detection angle | 84° |
| Light measurement at the sensor head ^① | 10 – 650 lx |
| Infra-red control range | 5 m |
| Max. mounting height | 5 m |
| Operating temperature | 0 ... +50 °C |
| Storage temperature | -25 ... +55 °C |
| Type of protection | IP20 |

^① The measured value at the sensor head corresponds to approx. 15 to 2,000 lux on the surface measured.



Ordering data

| Type | Article number | Packaging, carton | Weight per pc. |
|--|----------------|-------------------|----------------|
| basicDIM DGC Sensor 5DPI 14rc Ceiling installation | 28000934 | 63 pc(s). | 0.06 kg |

1. Standards

IEC 60950-1
EN 55022
EN 55024
EN 61547
EN 61000-4-3
EN 61000-6-1
EN 61000-6-3
IEC 61347-2-11

2. Common

2.1 Description

sceneCOM is a lighting management system designed to easily control your luminaires. The sceneCOM web application allows the automation of up to 192 luminaires with one sceneCOM control device.

The sceneCOM web application is therefore suitable for smaller buildings or individual floors of a building.

Besides the functional lighting in a building, self-contained emergency luminaires can also be used in a sceneCOM system.

3. Interfaces / communication

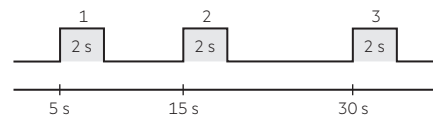
3.1 Device LED

| Status-LED | Description |
|----------------------------------|-------------------------|
| Green, intermittently flickering | Fault-free operation |
| Off | No mains voltage (L, N) |
| Red | Serious internal error |

3.2 DALI LED

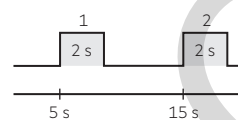
| Status-LED | Description |
|--------------------------------------|---|
| Green, intermittently flickering | Fault-free operation |
| Green, flashing on/off every 0.5 s | Test mode |
| Orange, flashing on/off every 0.5 s | Addressing or DALI initialisation |
| Off | No mains voltage (L, N) |
| Red | More than 64 DALI-compliant devices connected |
| Red, intermittently flickering | DALI control line short-circuited or more than 120 DALI loads |
| Red-green, intermittently flickering | Lamp failure |

3.3 Function switch

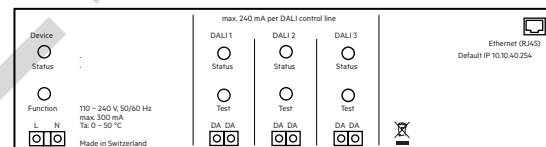


| Orange phase | Function |
|--------------|---|
| 1 | Restart the sceneCOM. |
| 2 | Delete the addresses and short addresses of all control gear and input devices connected to the 3 DALI control lines. |
| 3 | Reset the IP address to the factory setting (10.10.40.254). |

3.4 Function switch



| Orange phase | Function |
|--------------|--|
| 1 | Exit test mode for all outputs. |
| 2 | Delete the addresses and short addresses of all control gear and input devices connected to the corresponding DALI control line. |



4. Installation

4.1 Safety instructions



The device may only be used for the specified area of application.

Relevant health and safety regulations must be observed.

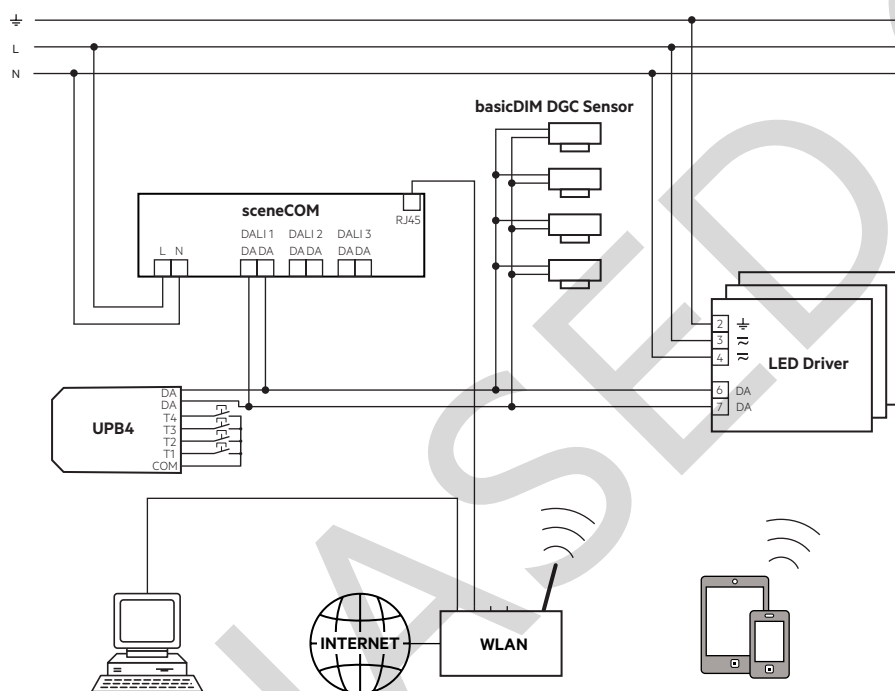
The voltage supply must be disconnected when the device is being assembled and installed.

Only qualified personnel may assemble, install and commission the device.

Protection class II can only be guaranteed when the terminal covering has been correctly installed.

If a fault occurs, dangerous voltage levels may be present at the DALI terminals and on the DALI control line.

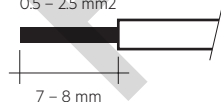
4.2 Wiring examples



4.3 Wiring type and cross section sceneCOM Controller

The wiring can be solid wire, stranded wire or stranded wire with end sleeve with a cross-section of 0.5 mm² to 2.5 mm².

wire preparation:
0.5 – 2.5 mm²

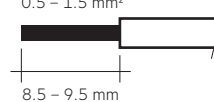


4.4 Wiring type and cross section UPB4

The wiring can be solid wire or stranded wire with end sleeve with a cross-section of 0.5 mm² to 1.5 mm².
Maximum cable length between momentary-action switch and UPB4 is 50 cm.

Connecting wires are supplied inside the package.

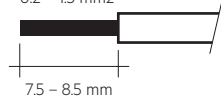
wire preparation:
0.5 – 1.5 mm²



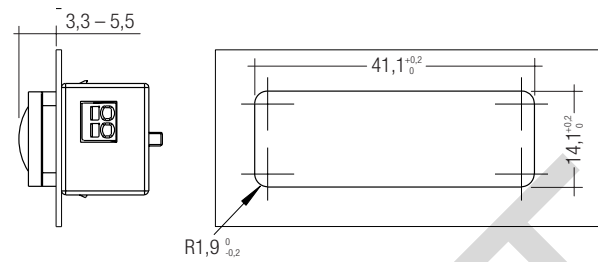
4.5 Wiring type and cross section basicDIM Sensor 5DPI 14rc

The wiring can be solid wire or stranded wire with a cross-section of 0.2 mm² to 1.5 mm².

wire preparation:
0.2 – 1.5 mm²



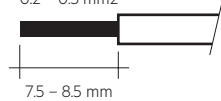
Size of the sheet: 0.8 – 3.0 mm



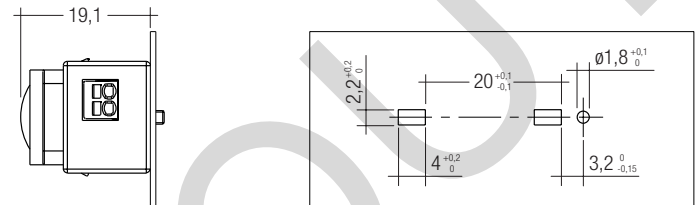
4.6 Wiring type and cross section basicDIM Sensor 5DPI 14f

The wiring can be solid wire or stranded wire with a cross-section of 0.2 mm² to 0.5 mm².

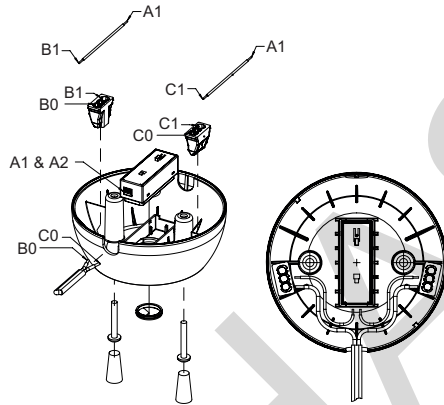
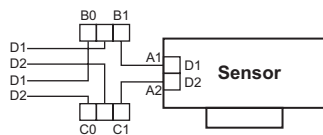
wire preparation:
0.2 – 0.5 mm²



Size of the sheet: 0.6 – 0.8 mm

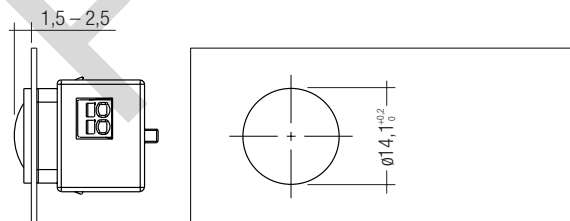


4.7 Wiring and mounting ACU Sensor Housing 14rs IP20



4.8 Mounting variants luminair installation sensor

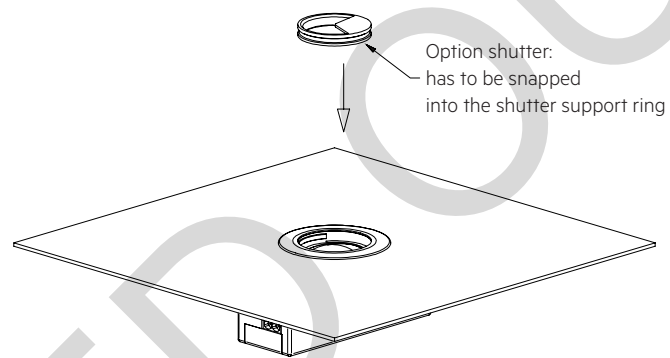
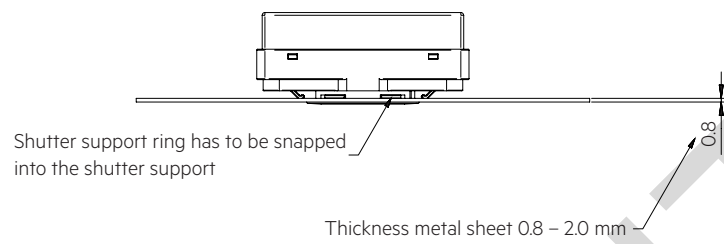
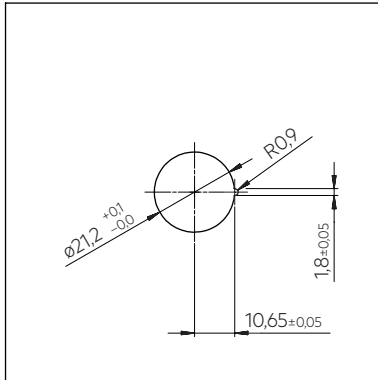
Size of the sheet: 0.8 – 1.8 mm



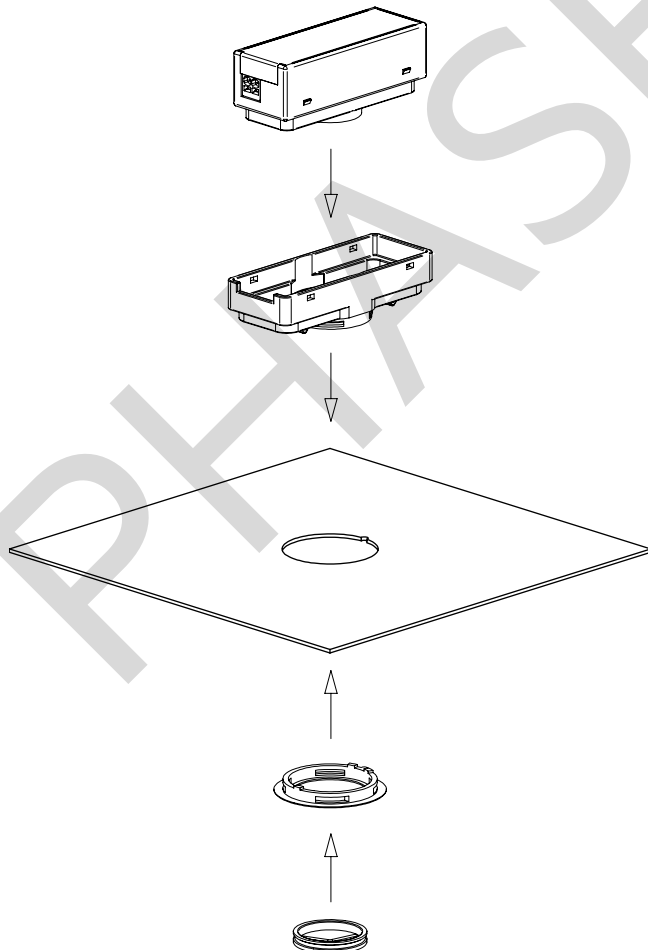
4.9 Mounting in luminaire housing with Mounting Kit:

Size of the sheet: 0.8 – 2.0 mm

Dimension drawing for needed
mounting opening

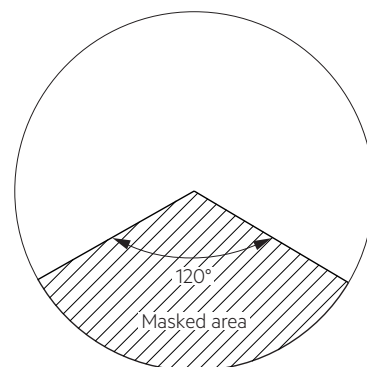
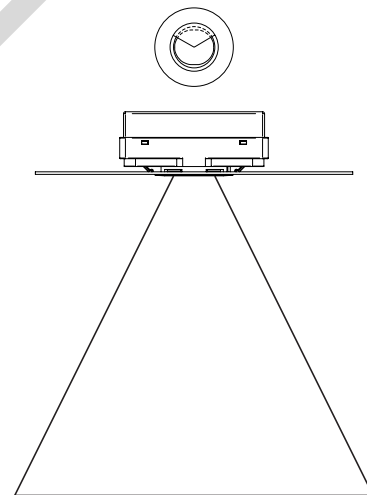


4.10 Mounting Kit mounting



4.11 Mounting Kit Shutter

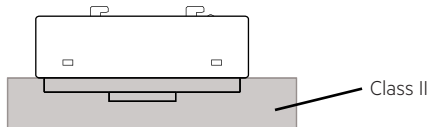
Area which is masked by the shutter.



4.12 Mounting in class II luminaire

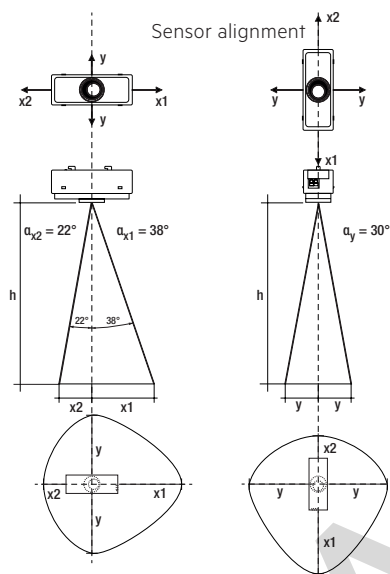
The Sensor provides basic insulation as required by IEC 62386-101 and defined in IEC 61347-1.

If the sensor is built in to a class II luminaire which has to provide double or reinforced insulation it has to be considered that the Sensor is not a class II device. Still the Sensor can be used for such projects as the front of the sensor is tested to fulfill the class II requirements for double or reinforced insulation.



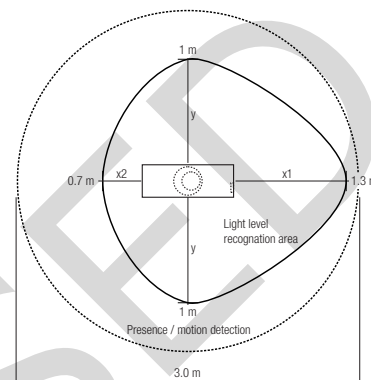
6. basicDIM DGC sensor functions

6.1 Light level recognition area

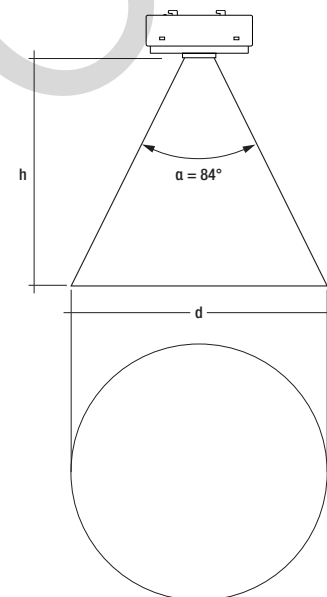


| h * | x1 | x2 | y | d |
|-------|-------|-------|-------|-------|
| 1.7 m | 1.3 m | 0.7 m | 1.0 m | 3.0 m |
| 2.0 m | 1.6 m | 0.8 m | 1.2 m | 3.6 m |
| 2.3 m | 1.8 m | 0.9 m | 1.3 m | 4.1 m |
| 2.5 m | 2.0 m | 1.0 m | 1.4 m | 4.5 m |
| 2.7 m | 2.1 m | 1.1 m | 1.6 m | 4.9 m |
| 3.0 m | 2.3 m | 1.2 m | 1.7 m | 5.4 m |
| 3.5 m | 2.7 m | 1.4 m | 2.0 m | 6.3 m |
| 4.0 m | 3.1 m | 1.6 m | 2.3 m | 7.2 m |

Example for light and motion detection area at height of 1.7 m:



5.2 Presence / motion detection



* The recommended maximum room height for office applications is 3 m and for corridor applications for example 4 m. Up to 2 m mounting height presence is detected and over 2 m motion is detected.

Calculation of the diameter (light area):

$$x1 = \tan(\alpha_{x1}) \times h$$

$$x2 = \tan(\alpha_{x2}) \times h$$

$$y = \tan(\alpha_y) \times h$$

Calculation of the diameter (motion area):

$$d = 2 \times \tan(0.5 \times \alpha) \times h$$

7. Functions

| Function | sceneCOM L | sceneCOM XL | sceneCOM XL EM | sceneCOM XL EM Bac |
|--------------------------------------|------------|-------------|----------------|--------------------|
| Addressing | ✓ | ✓ | ✓ | ✓ |
| Addressing wizard | ✓ | ✓ | ✓ | ✓ |
| System image | ✓ | ✓ | ✓ | ✓ |
| Presence linking | ✓ | ✓ | ✓ | ✓ |
| Conditional scene recall | ✓ | ✓ | ✓ | ✓ |
| BACnet | ✗ | ✗ | ✗ | ✓ |
| Data backup | ✓ | ✓ | ✓ | ✓ |
| Installation test | ✓ | ✓ | ✓ | ✓ |
| Calendar | ✓ | ✓ | ✓ | ✓ |
| Self-contained emergency luminaires | ✗ | ✗ | ✓ | ✓ |
| Log | ✓ | ✓ | ✓ | ✓ |
| Shows | ✗ | ✓ | ✓ | ✓ |
| Special luminaires | ✗ | ✓ | ✓ | ✓ |
| Scenes | ✓ | ✓ | ✓ | ✓ |
| Faults | ✓ | ✓ | ✓ | ✓ |
| Daylight linking (with light sensor) | ✓ | ✓ | ✓ | ✓ |
| Zones | ✓ | ✓ | ✓ | ✓ |

The description of the individual functions is available via our WEB page:
<https://www.tridonic.com/com/en/products/scenecom-controller.asp#tab4>

8. em-LINK v2

The em-LINK v2 software allows you to remotely monitor the status of all connected emergency gears from up to 100 sceneCOM controllers. It is accessible via WEB interface. More information on the em-LINK v2 software can be found in it's manual or at www.tridonic.com/software.

9. Miscellaneous

9.1 Disposal of equipment



Return old devices in accordance with the WEEE directive to suitable recycling facilities.

9.2 Additional information

Additional technical information at www.tridonic.com → Technical Data

Guarantee conditions at www.tridonic.com → Services

Life-time declarations are informative and represent no warranty claim.
No warranty if device was opened.