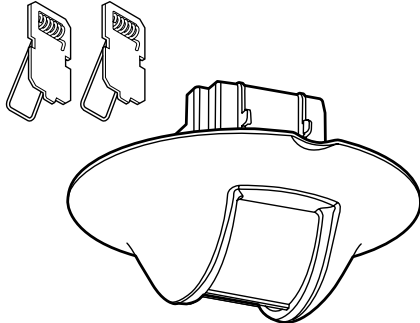


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| CONTENTS | Page |
|------------------------------------|------|
| 1. Use | 1 |
| 2. Technical characteristics | 1 |
| 3. Installation | 2 |
| 4. Dimensions | 3 |
| 5. Connection | 3 |
| 6. Operation | 4 |
| 7. Settings | 4 |
| 8. Performance | 6 |
| 9. Care | 6 |
| 10. Standards | 6 |
| 11. Troubleshooting | 6 |

1. USE

DALI sensor Cat. No: 0 489 36 uses PIR (passive infrared) technology to detect movement, and also incorporates an light level meter.

It can be surface-mounted on a concrete ceiling using box Cat. No. 0 488 75, or flush-mounted directly in a suspended ceiling using claws or in a flush-mounting box Cat. No. 0 800 31.

It is suitable for indoor passageways such as corridors, and can manage a group of 64 ECGs maximum.

This sensor is fully configured using configuration tool Cat. No. 0 882 30/ BMSO4001 with which it is possible to:

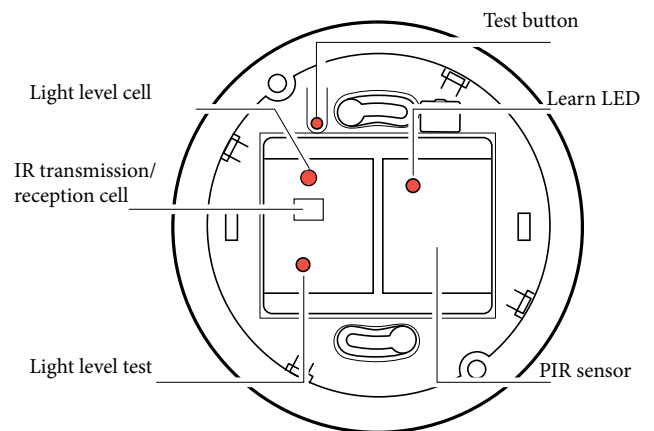
- Control a single zone or group
- Distribute DALI ECG addresses
- Pair DALI ECGs with their sensor
- Designate Master and Slave sensors
- Define the standby level when there is no detection
- Define the standby time
- Configure all the other sensor settings (for example, daylight setpoint, time the lighting remains on after detection, choice of detection technology, operating mode, etc.)

DALI sensor Cat. No. 0 489 36 is powered with 16 VDC by the DALI bus.

A DALI power supply Cat. No. 0 035 15 or 0 035 13 can supply this voltage to the DALI BUS with a maximum of 200 mA.

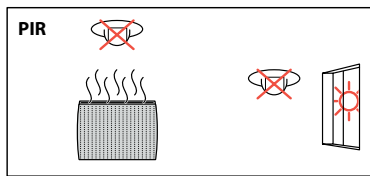
2. TECHNICAL CHARACTERISTICS

Voltage: 16 V=
 No-load power consumption: 10 mA
 Usage temperature: -5°C to +45°C
 Storage temperature: -20°C to +70°C
 Impact resistance: IK04
 Penetration by solid and liquid matter: IP20
 Weight: 114 g

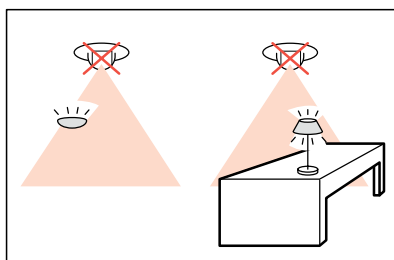
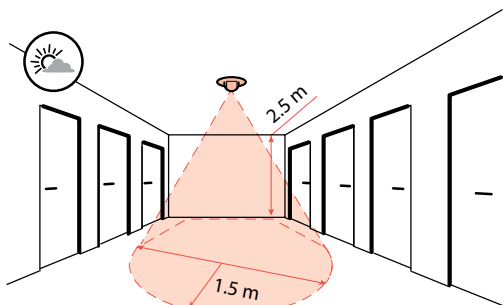


3. INSTALLATION

■ **3.1 Sensor location**

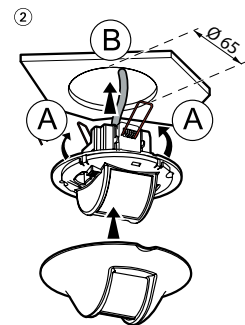
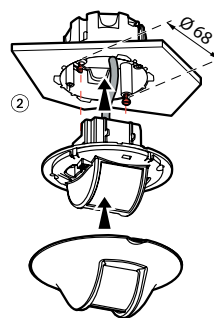
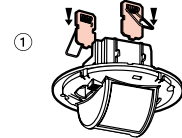
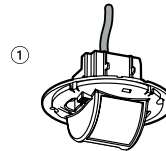
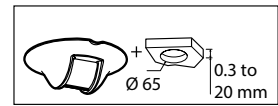
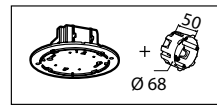


■ **3.2 Recommended light exposure**

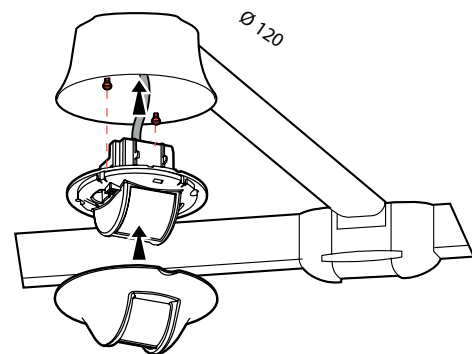
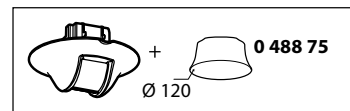


3. INSTALLATION (CONTINUED)

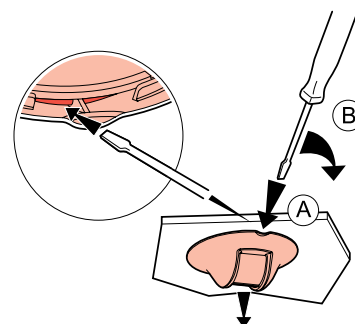
■ **3.3 Mounting**



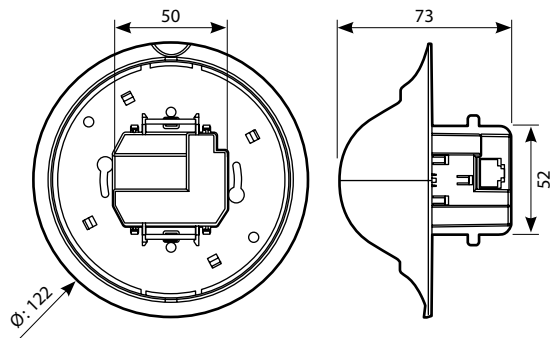
■ **3.4 Recommended light exposure**



■ **3.5. Removal**

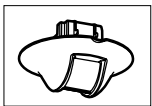


4. DIMENSIONS

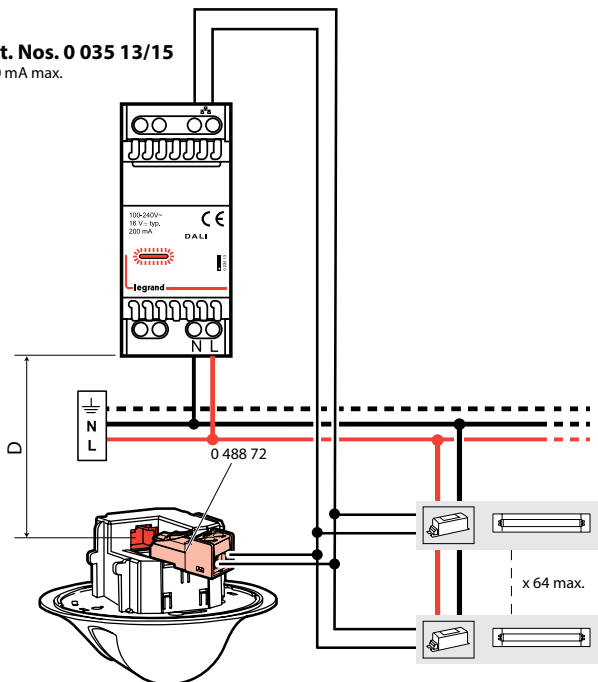


5. CONNECTION

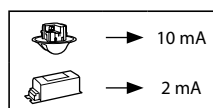
5.1 Wiring with a single sensor:



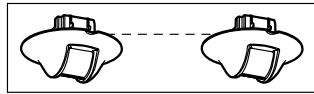
Cat. Nos. 0 035 13/15
200 mA max.



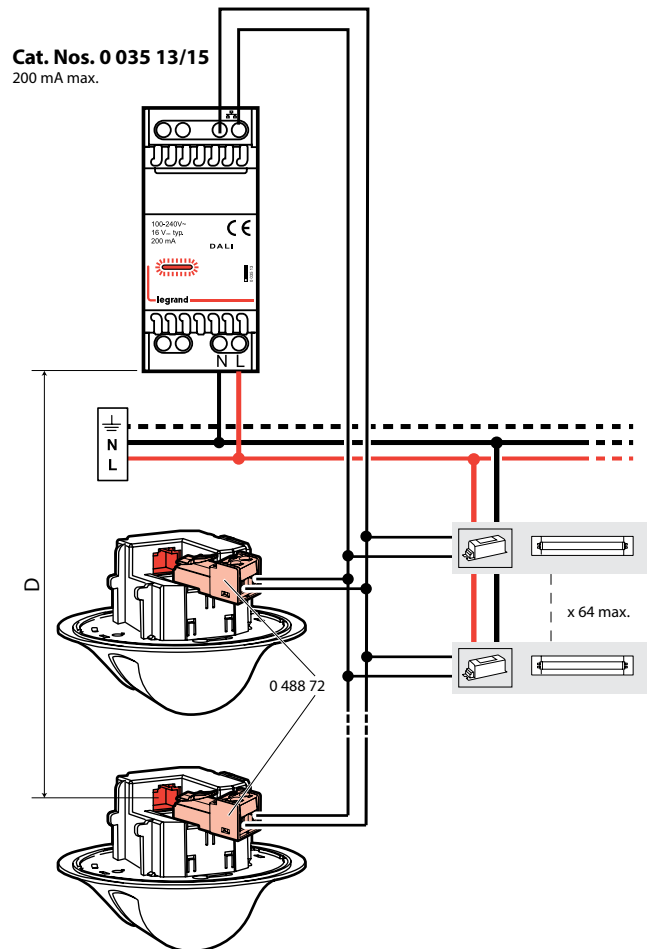
| D | |
|---------|----------------------|
| ≤ 100 m | 0.5 mm ² |
| ≤ 150 m | 0.75 mm ² |
| ≤ 300 m | 1.5 mm ² |



5. CONNECTION (CONTINUED)

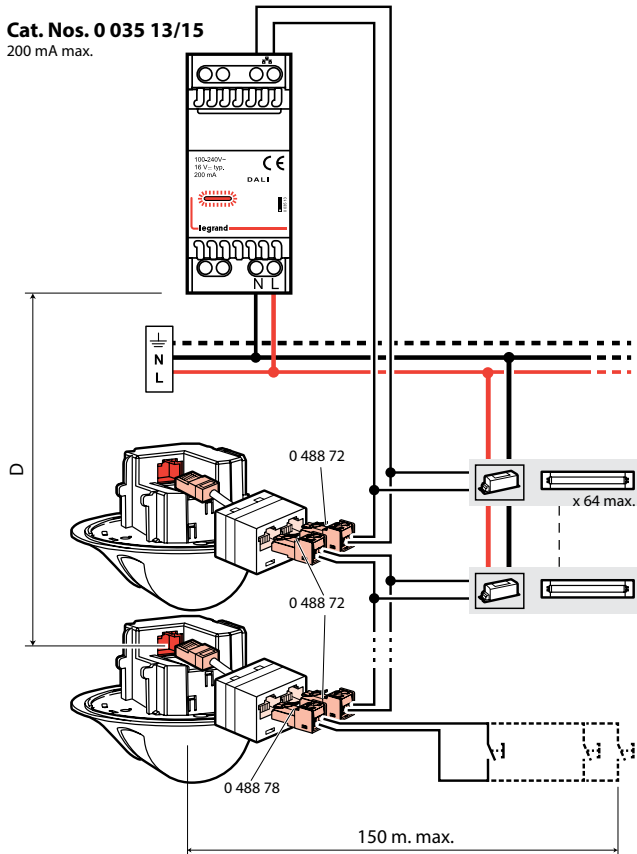
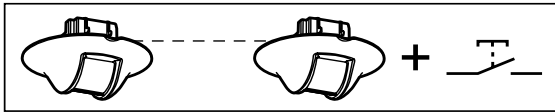


5.2 Wiring with several sensors



5. CONNECTION (CONTINUED)

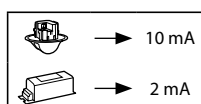
■ 5.3 Wiring with several sensors and one control unit:



The push-button must be connected to a master sensor via Cat. No. 0 488 78.

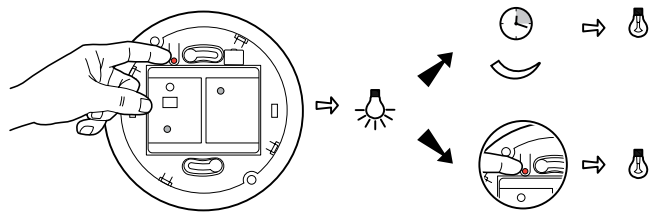
0 488 78

| D | |
|---------|----------------------|
| ≤ 100 m | 0.5 mm ² |
| ≤ 150 m | 0.75 mm ² |
| ≤ 300 m | 1.5 mm ² |



6. OPERATION

■ 6.1 TEST function



■ 6.2 Configuration

Configuration of a DALI installation is described in the DALI programming manual.

7. SETTINGS

■ 7.1 Detection settings

| Sensor settings | Default value | Modifiable parameters | Configuration tools 0 882 30 BMSO4001 | |
|-------------------------|---------------------------|------------------------------|---|---|
| Time delay | 15 min | 5 s - 2 hrs | ✓ | |
| Sensitivity | PIR (very high) | Low, medium, high, very high | ✓ | |
| Modes | Auto on/Auto off | Active | Enable/Disable | ✓ |
| | Walkthrough | Inactive | Enable/Disable | ✓ |
| | Manual on/Auto off | Inactive | Enable/Disable | ✓ |
| Detection system | Initial | PIR | Not modifiable | ✓ |
| | Maintain | PIR | Not modifiable | ✓ |
| Alarm | Inactive | Enable/Disable | ✓ | |

Time delay: Length of time the load is on after detection.

Pulse mode (= push-button mode): If the time delay is set to 0, the sensor is in push-button mode. In this case, there is a 10-minute time delay before the load is switched off. If the setting is overridden or there is a new detection, the 10-minute time delay starts again.
Available with configuration tool 0 882 30/BMSO4001.

Sensitivity: Detection range setting.

7. SETTINGS (CONTINUED)

7.1 Detection settings(continued)

Auto on/Auto off mode:

The lighting switches on automatically:
- On detection of presence if the natural light level is insufficient.

The lighting switches off automatically:
- Where no presence is detected and at the end of the time delay set
- Or if the natural light level is sufficient (regulation activated)

Another detection causes automatic switch-on if there is insufficient light.

Walkthrough mode:

- If no presence is detected in the 20 seconds following an initial detection, the device will switch off the load after 3 minutes.
- If another movement is detected in the 3 minutes following initial detection, the device will switch off the load at the end of the set time delay.

Manual on/Auto off mode:

The lighting is switched on via a manual control, but switches off automatically:

- Where no presence is detected and at the end of the time delay set

After switch-off, if another movement is detected within a 30-second period, the lighting switches on automatically.

The Restart function must be enabled.

After 30 seconds, the lighting has to be switched on manually.

Detection system:

Initial detection: The load is switched on as soon as the first detection occurs if the natural light level is below the light level threshold.

Maintain: The load remains active if another presence is detected.

Restart: In manual mode. After switch-off, any new detection within a 30-second period triggers an automatic switch-on.

After 30 seconds the device must be switched on manually.

Possible in Manual on/Auto off mode only, by disabling the Detection System: "Initial"

Alarm: An audible signal is emitted before switch-off. 1 minute before, then 30 seconds, then 10 seconds.

7.2 Light level settings

| Sensor settings | Default value | Modifiable parameters | Configuration tools 0 882 30 BMSO4001 |
|-------------------|--------------------|-----------------------|---|
| Daylight setpoint | 150 lux | 5 - 1275 lux | ✓ |
| Advanced mode | Calibration | 0 - 99995 lux | ✓ |
| | Light regulation | Enable/Disable | ✓ |
| | Light contribution | Auto - 1275 lux | ✓ |

Daylight setpoint: Value at which the load comes on if the natural light level is less than the setting.

Eye function: Value 0 (eye on configuration tool 0 882 30/BMSO4001) is used to save the ambient light level in the room as a daylight setpoint.

7.2 Light level settings (continued)

Advanced mode:

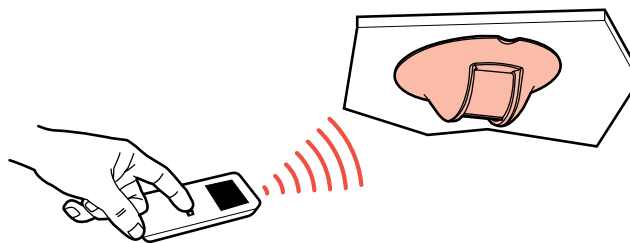
Calibration: The ambient light level measured with a luxmeter must then be transmitted to the sensor.

Regulation: Automatic switch-off of the load 10 minutes after the daylight setpoint is exceeded with an additional safety threshold (to avoid lights switching off at the wrong moment).

Light contribution: Quantity of additional lux provided by the load being switched on.

When the light contribution parameter is set to "Auto" on configuration tool Cat. No. 0 882 30/BMSO4001, the sensor automatically calculates how much light is provided.

7.3 Modifying the settings using the configuration tool

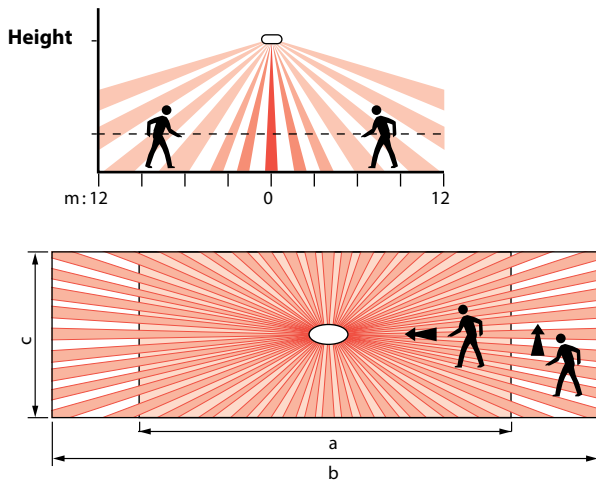


0 882 30/BMSO4001: Advanced configuration tool

When the sensor receives an IR command via the configuration tool, a red LED lights up acknowledging the modification.

For more information about setting parameters, refer to the data sheet for the configuration tool Cat. No. 0 882 30.

8. PERFORMANCE



| | | Low sensitivity (25%) | | | Medium sensitivity (50%) | | |
|------------|-----|---------------------------|-------|-------|---------------------------------|-------|-------|
| | | a (m) | b (m) | c (m) | a (m) | b (m) | c (m) |
| Height (m) | 2.5 | 7 | 10 | 3 | 8 | 14 | 3 |
| | 3 | 7 | 10 | 3 | 8 | 14 | 3 |
| | 3.5 | 9 | 10 | 3 | 12 | 14 | 3 |
| | 4 | 10 | 8 | 3 | 13 | 9 | 3 |
| | | High sensitivity (75%) | | | Very high sensitivity (100%) | | |
| | | a (m) | b (m) | c (m) | a (m) | b (m) | c (m) |
| Height (m) | 2.5 | 10 | 16 | 3 | 16 | 24 | 3 |
| | 3 | 10 | 16 | 3 | 16 | 24 | 3 |
| | 3.5 | 14 | 16 | 3 | 17 | 24 | 3 |
| | 4 | 15 | 10 | 3 | 18 | 14 | 3 |

9. CARE

Keep the lens clean.
Clean the surface with a cloth.
Do not use acetone, tar-removing cleaning agents or trichloroethylene.
Resistant to the following products: - Hexane
- Methylated spirit
- Soapy water
- Diluted ammonia
- Bleach diluted to 10%
- Window-cleaning products

Caution:
Always test before using other special cleaning products.

10. STANDARDS

Directive: EC
Installation standards: NFC 15-100
Product standards: NF EN 50428
Environmental standards:
- European directive 2002/96/EC:
WEEE (Waste Electrical and Electronic Equipment)
- European directive 2002/95/EC:
RoHS (Restriction of Hazardous Substances)
- Decrees and/or regulations: Public buildings
Workplace buildings
High-rise buildings

NB:
All technical information is available online at

 www.legrandoc.com

11. TROUBLESHOOTING

| PROBLEMS | CAUSES | SOLUTIONS |
|--|--|---|
| The lighting stays on when there is no-one present | Sources of interference such as draughts, vibration or radiators may cause nuisance tripping | 1- Reduce the sensitivity level 2- If the interference continues with the configuration tool, go into Detection system, select Maintain and then choose PIR or US detection 3- If the interference still continues, move the sensor away from sources of interference |
| The lighting does not switch off during the day when there is an adequate natural light level | Regulation function inactive Daylight setpoint too high Too much light provided | Enable the regulation function Reduce the light level threshold Check that the sensor is positioned correctly in relation to the window Decrease the power of the luminaires |
| The lighting switches off when there are people present and the natural light level is inadequate (darkness) | Time delay too short Detection sensitivity too low Daylight setpoint too low | Increase the time delay 5 to 15 minutes is recommended for work areas Increase the sensitivity Move the sensor closer to the work area Increase the threshold |