

Presence detector P49MR, DALI-2, BMS, 12-13 m, for flush-mounting box, white

353-650521

4 year warranty

BMS DETECTOR, MEDIUM RANGE FOR FLUSH-MOUNTING BOX

This DALI-2 certified BMS detector can be integrated into building management systems together with third-party DALI-2 application controller.

OPTIMIZE THE DALI SYSTEM WITH LOWER CURRENT CONSUMPTION

This detector is specifically designed for low current consumption, which optimizes the total number of devices in a DALI system. By disabling the wireless Bluetooth® communication, current consumption can be minimized even further.

ACCURATE LIGHTING CONTROL

The detector is equipped with an integrated PIR sensor for DALI-2 commands according to IEC 62386-303. As well as a light sensor for DALI-2 commands according to IEC 62386-304 for measuring the light level. The light sensor operates in two ranges: 0 – 1023 lux and 0 – 10360 lux, ensuring flexible and accurate lighting control.

ADVANTAGES OF DALI-2 BMS DETECTORS

Perfect for buildings with high demands on energy efficiency and comfort. Typically used to automate lighting control, heating, ventilation and air conditioning (HVAC).

SAVE TIME ON INSTALLATION AND GET RELIABLE RANGE ACCORDING TO IEC63180

The detector is specially designed for mounting in a standard flush-mounting box. The screwless and accessible plug-in terminals make the detector easy to install.

The detection range of the P40 and M40 series is tested and documented by an independent third-party laboratory in a controlled environment, following the IEC 63180 standard. Automated, repeated testing ensures consistent reliability and high precision.

FUNCTIONS

- Detection range: Ø12 m at a mounting height of 3 meters
- Adjustable PIR sensitivity (4 levels)
- Sensitivity settings via Niko detector tool app or BMS software, can be locked with PIN code
- Wireless Bluetooth® communication can be disabled via BMS software

EASY COMMISSIONING

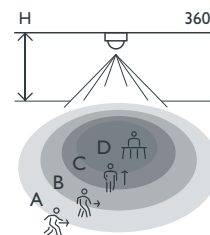
- Communication with the overall BMS system takes place via the DALI bus
- Configuration and settings via BMS software

Finishing colour: white

This article is protected by at least one patent (application). For more info on patents, see www.niko.eu/innovation.



Detection range



| H | A Walking | B Across | C Towards | D Presence |
|-------|--------------|-------------|--------------|---------------|
| 2.5 m | Ø 13 m | Ø 11 m | Ø 3 m | Ø 5 m |
| 3.0 m | Ø 12 m | Ø 12 m | Ø 3 m | Ø 5 m |

Measured according to EN/IEC63180



DALI-2



BMS



360°



Ø 12 m from
a height of
3 m



2 – 3.5 m



flush-
mounting
box

niko

- Flat and discrete design
- Easy installation thanks to the direct connection to the DALI bus
- Communication with the BMS system via the DALI bus
- Power supply via the DALI bus
- Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)
- Quick cabling using screwless and easily accessible plug-in terminals
- User-friendly app for settings (iOS/Android) or BMS software
- Communication between smartphone and detector via Bluetooth®
- Possible to disable Bluetooth® communication
- Pre-configured functions:
 - adjustable PIR sensitivity (4 levels)
 - event log keeps track of recent changes
- Settings can be locked with a PIN-code

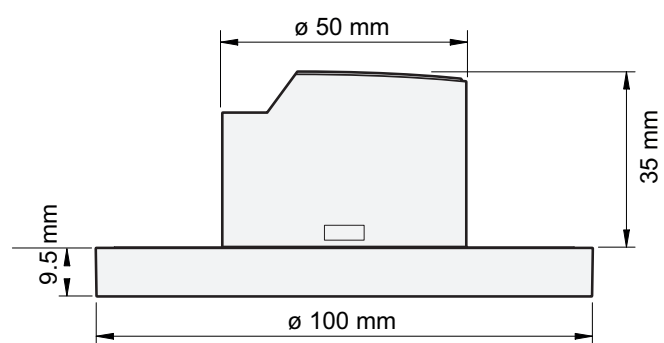
Technical data

| | |
|--|---|
| Article number | 353-650521 |
| Configuration | BMS |
| Input voltage | via the DALI bus |
| Detector output | DALI-2 |
| Maximum current consumption | 10 mA |
| Nominal current consumption (12 V, 25°C), Bluetooth® enabled | 4 mA |
| Nominal current consumption (12 V, 25°C), Bluetooth® disabled | 3 mA |
| Maximum startup time DALI | < 1200 ms |
| Maximum PIR detection startup time | 1 min 10 s |
| Light intensity range | 0 lux – 10360 lux |
| Detection angle | 360° |
| Detection range (PIR) | ø 12 m from a height of 3 m |
| Ambient temperature | -25 – +40 °C |
| Mounting method | flush-mounting box |
| Mounting height | 2 – 3.5 m |
| Colour | white (approximately RAL 9010) |
| Dimensions visible (HxWxD) | 100 x 100 x 9.5 mm |
| Dimensions (HxWxD) | 100 x 100 x 44.5 mm |
| Maximum range Bluetooth® (free field, depending on the device) | 50 m |
| Operating frequency | 2.4 GHz |
| Maximum radio frequency power | -2 dBm |
| Protection degree | IP20 |
| Impact resistance | IK02 |
| Modification of settings | Niko detector tool app (iOS-Android) and BMS software |
| Halogen-free | yes |
| Marking | CE |

Accessories

| | |
|------------|--|
| 353-999869 | Lens cover for P4XMR and M4XMR detectors, transparent (5 pieces) |
| 353-990992 | Deco ring for flush-mounted P4XMR and M4XMR detectors, black |

Dimensions



Wiring diagram

