

# Presence detector P49LR, DALI-2, BMS, 32-37 m, for flush mounting (SnapFit), white

353-751521

4 year warranty

## BMS DETECTOR, LONG RANGE, FOR FLUSH MOUNTING

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

## OPTIMISE THE DALI SYSTEM WITH LOWER CURRENT CONSUMPTION

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

## ACCURATE LIGHTING CONTROL

The detector is equipped with an integrated PIR sensor for DALI-2 commands according to IEC62386-303, as well as a light sensor for DALI-2 commands according to IEC62386-304 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

This detector is perfect for buildings with high demands on energy efficiency and comfort. It is typically used to automate lighting control, heating, ventilation and air conditioning (HVAC).

## SAVE TIME ON INSTALLATION WITH SNAPFIT AND GET RELIABLE RANGE ACCORDING TO IEC63180

The unique SnapFit system ensures a quick and stable installation in all types of suspended ceilings with or without removable tiles. It is easy and quick to install the detector with a simple turn-and-click movement, which saves both time and effort during installation and disassembly. The screwless and accessible plug-in terminals make the detector easy to install. Cable relief and installation of the cable cover can be done without using tools. 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 IEC63180 standard. Automated, repeated testing ensures consistent reliability and high precision.

## FUNCTIONS

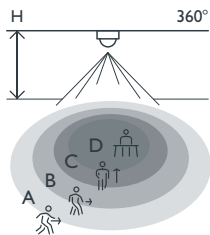
- Detection range:  $\varnothing$  37 m at a mounting height of 3 m
- Adjustable PIR sensitivity (4 levels) in  $3 \times 120^\circ$
- Sensitivity settings via Niko detector tool app or the BMS software, can be locked with PIN code
- Wireless Bluetooth® communication can be disabled via BMS software

## EASY COMMISSIONING

- Communication with the overall BMS system takes place via the DALI bus



## Detection range



H	A Walking	B Across	C Towards	D Presence
2.5 m	$\varnothing$ 32 m	$\varnothing$ 28 m	$\varnothing$ 10 m	$\varnothing$ 8 m
3.0 m	$\varnothing$ 37 m	$\varnothing$ 30 m	$\varnothing$ 8 m	$\varnothing$ 5 m
3.5 m	$\varnothing$ 48 m	$\varnothing$ 42 m	$\varnothing$ 8 m	$\varnothing$ 6 m

Measured according to EN/IEC63180



Bluetooth®



DALI-2



BMS



360°



$\varnothing$  37 m from  
a height of  
3 m



2 – 3.5 m



flush-  
mounting  
(SnapFit)

**niko**

- Configuration and settings via BMS software

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

- 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
- SnapFit mounting bracket for easy and stable mounting in all types of suspended ceilings with or without removable tiles
- Quick cabling using screwless and easily accessible plug-in terminals
- Screwless strain relief and screwless installation of cable cover
- 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 and configuration can be locked with a PIN-code

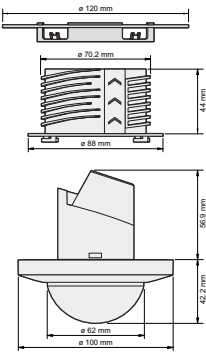
## Technical data

Article number	353-751521
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 37 m from a height of 3 m
Ambient temperature	-25 – +40 °C
Mounting method	flush-mounting (SnapFit)
Mounting height	2 – 3.5 m
Drill diameter	76 mm
Minimum flush-mounting depth	56.9 mm
Colour	white (approximately RAL 9010)
Dimensions visible (HxWxD)	100 x 100 x 42.2 mm
Dimensions (HxWxD)	100 x 100 x 99.1 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	IK04
Modification of settings	Niko detector tool app (iOS-Android) and BMS software
Halogen-free	yes
Marking	CE

## Accessories

353-999879	Lens cover for P4XLR, M4XLR and M4XHC detectors transparent (5 pieces)
353-991901	Spring clips for flush-mounted P4XMR, P4XLR, M4XMR and M4XLR detectors (SnapFit)
353-990992	Deco ring for flush-mounted P4XMR and M4XMR detectors, black

Dimensions



Wiring diagram

