

# Presence detector P47LR, DALI-2, master, 32-37 m, for flush mounting (SnapFit), WAGO WINSTA® MIDI 2 m cable with 5-pol. connector, white

353-751321-1

4 year warranty

This presence detector is a DALI-2 master for DALI lighting control in up to three dimmable daylight zones. Lighting control can be overridden via wireless and battery-free Bluetooth® push buttons. The detector settings can be modified using the Niko detector tool app and 2-way Bluetooth® communication. The SnapFit mounting system guarantees fast and stable installation. The detector is prewired with a cable and a 5-pole female connector that is unique, which helps to avoid installation errors and save time.

This P47 DALI-2 master detector is used in installations with standard daylight control applications, mainly with an automatic ON/OFF function. It is suitable for hallways, corridors, offices, classrooms and meeting rooms. The detection range can be extended with P46 DALI-2 secondary detectors with a 2 m cable and connector. Mind the maximum guaranteed current on the DALI bus.

Use distribution box 353-70804 to divide the power distribution to the DALI luminaires over two circuit breakers and achieve a higher security of supply.

Finishing colour: white

Compatible secondary detectors: 353-651021-1, 353-751021-1

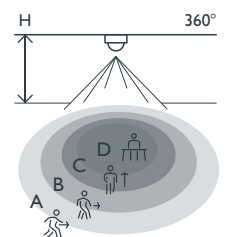
Compatible controls: 360-21001

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).



- Daylight control in 1-3 daylight zones
- 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 commissioning (iOS/Android)
- 2-way Bluetooth® communication ensures quick commissioning and live feedback in the app
- Supports DALI broadcast (default) and DALI addressable
- Fitted with three PIR segments, each covering 120°
- Pre-configured functions:
  - auto configuration when replacing one DALI ballast/DALI device
  - orientation light
  - adjustable power-on level when daylight control is disabled
  - one or more PIR segments can be disabled
  - adjustable PIR sensitivity (4 levels) in 3 x 120°
  - tunable white third-party integration
  - event log keeps track of recent changes
- DALI lighting control can be overridden with a 230 V push button - different options available
- Suitable for controlling up to 64 DALI devices (consider guaranteed current on the DALI bus)
- Settings and configuration can be locked with a PIN code

## Detection range



| H     | A<br>Walking | B<br>Across | C<br>Towards | D<br>Presence |
|-------|--------------|-------------|--------------|---------------|
| 2.5 m | Ø 32 m       | Ø 28 m      | Ø 10 m       | Ø 8 m         |
| 3.0 m | Ø 37 m       | Ø 30 m      | Ø 8 m        | Ø 5 m         |
| 3.5 m | Ø 48 m       | Ø 42 m      | Ø 8 m        | Ø 6 m         |

Measured according to EN/IEC63180



Bluetooth®



DALI-2



master



360°



Ø 37 m from  
a height of  
3 m



2 - 3.5 m



flush-  
mounting  
(SnapFit)

**niko**

- Web based portal solution for backing up and exchanging configuration files
- Suitable for BMS integration

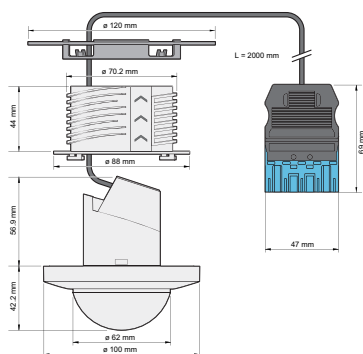
## Technical data

|  |   |
|--|---|
| Article number   | 353-751321 -1   |
| Compatible secondary detectors                                 | 353-651021 -1, 353-751021 -1  |
| Compatible controls  | 360-21001   |
| Configuration  | master  |
| Input voltage  | 230 Vac $\pm$ 10 %, 50 Hz   |
| Detector output  | DALI Broadcast/DALI Addressable   |
| Maximum power consumption                                      | 0.5 W   |
| Maximum MCB rating   | 16 A (limited by national installation rules)                           |
| Short circuit behaviour shutdown trigger                       | voltage below 12 V, exceeding 1.3 s                                     |
| Short circuit behaviour restart period                         | every 14 s until success  |
| Maximum voltage on the DALI bus                                | 15 Vdc  |
| Maximum guaranteed current on the DALI bus                     | 100 mA  |
| Maximum supply current   | 250 mA  |
| Maximum startup time DALI                                      | < 1200 ms   |
| Maximum PIR detection startup time                             | 1 min 10 s  |
| Light intensity range  | 20 lux – 2000 lux, $\infty$   |
| Maximum number of secondary detectors                          | 2   |
| Maximum number of control gear on the DALI bus                 | 64  |
| Maximum number of dimmable zones                               | 3   |
| Switch-off delay   | pulse, 20 s – 2 h, $\infty$   |
| Detection angle  | 360°  |
| Detection range (PIR)  | $\varnothing$ 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)   | 120 x 120 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 2-way Bluetooth® communication |
| Halogen-free   | yes   |
| Marking  | CE  |
| Cable specifications   | – cable colour: black   |
|  | – length: 2 m   |
|  | – wire cross-section: 1,5 mm <sup>2</sup>                               |
|  | – voltage: 400 V  |
|  | – rated current: 16 A   |
|  | – halogen-free: yes   |
|  | – ambient temperature: -5 – +40C°                                       |
|  | – type of connector: male, 5-pole, blue                                 |

## Accessories

|            |  |
|------------|--|
| 353-999879 | Lens cover for P4XLR, M4XLR and M4XHC detectors transparent (5 pieces)           |
| 353-991992 | Deco ring for flush-mounted P4XLR and M4XLR detectors, black                     |
| 353-991901 | Spring clips for flush-mounted P4XMR, P4XLR, M4XMR and M4XLR detectors (SnapFit) |

## Dimensions



## Wiring diagram

