

# Presence detector P47LR, DALI-2, master, 32-37 m, for flush-mounting box, white

**353-750321**

**4** year warranty

This presence detector is a DALI-2 master detector for DALI lighting control in up to 3 daylight zones. The detector is specially designed for mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance). The lighting zones are defined during commissioning, using the Niko detector tool app and 2-way Bluetooth® communication between a smartphone and the detector.

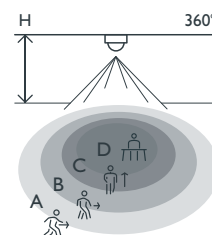
Finishing colour: white

Compatible secondary detectors: 353-650021, 353-651021, 353-652021, 353-750021, 353-751021, 353-752021, 353-852011

- Daylight control in 1-3 daylight zones
- 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 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
  - adjustable PIR sensitivity (4 levels) in 3 x 120°
  - one or more PIR segments can be disabled
  - 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)



## 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 4 m         |

Measured according to EN/IEC61180



Bluetooth®



DALI-2



master



360°



Ø 37 mm from  
a height of  
3 m



2 – 3.5 m



flush-  
mounting  
box

**niko**

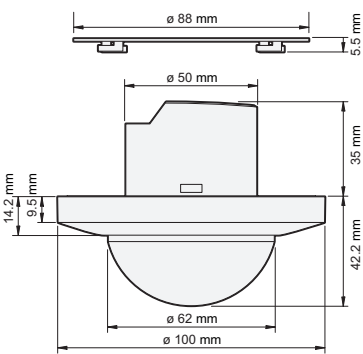
## Technical data

|                                                                |                                                                                    |
|----------------------------------------------------------------|------------------------------------------------------------------------------------|
| Article number                                                 | 353-750321                                                                         |
| Compatible secondary detectors                                 | 353-650021, 353-651021, 353-652021, 353-750021, 353-751021, 353-752021, 353-852011 |
| 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 control gear on the DALI bus                 | 64                                                                                 |
| Maximum number of dimmable zones                               | 3                                                                                  |
| Switch-off delay                                               | pulse, 30 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 box                                                                 |
| Mounting height                                                | 2 – 3.5 m                                                                          |
| Colour                                                         | white (approximately RAL 9010)                                                     |
| Dimensions visible (HxWxD)                                     | 100 x 100 x 42.2 mm                                                                |
| Dimensions (HxWxD)                                             | 100 x 100 x 77.2 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                                                                                 |

## Accessories

|            |                                                              |
|------------|--------------------------------------------------------------|
| 353-991992 | Deco ring for flush-mounted P4XLR and M4XLR detectors, black |
|------------|--------------------------------------------------------------|

Dimensions



Wiring diagram

