

Presence detector P48LR, DALI-2, master, 32-37 m, IP54, for surface mounting, white

353-752421

4 year warranty

This presence detector is a DALI-2 master for lighting control in up to 4 zones. The detector is fitted with multiple functions and can be controlled wirelessly using push buttons. It is designed for surface mounting and has an IP54 protection degree. 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

Compatible controls: 170-00005, 170-00015, 170-70015, 170-70005, 360-21001

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

- Surface mounting
- Lighting control in up to 4 zones (daylight controlled)
- Lighting zones can be controlled wirelessly by push buttons
- Quick cabling using screwless and easily accessible plug-in terminals
- Commissioning using app (iOS/Android) and 2-way Bluetooth® communication
- Supports DALI broadcast (default) and DALI addressable (up to 64 devices)
- Pre-configured functions:
 - auto configuration / orientation light / night mode
 - light scenarios – define and control up to 16 light scenarios
 - wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited number of DALI devices (> 64 DALI devices)
 - multi zone for board lighting and smart board lighting
 - tunable white using integrated presets or third-party integration
 - human centric lighting (24 presets)
 - output relay - control HVAC / standby minimization / light (On/Off)
 - external relay for HVAC / standby minimization / light (On/Off)
 - adjustable turn-on level when daylight control is disabled
 - adjustable PIR sensitivity (5 levels incl. disable) in 3 x 120°
 - event log keeps track of recent changes
- DALI lighting control can be overridden with a 230 V push button - different options available
- External DALI-2 input devices via DALI bus - up to 64 devices
- External trigger can be connected e.g. security alarm
- Web based portal solution for backing up and exchanging configuration files
- Settings and configuration can be locked with a PIN code
- IP54 protection degree
- Suitable for BMS integration



Detection range



| H | A Walking | B Across | C Towards | D 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



surface
mounting

niko

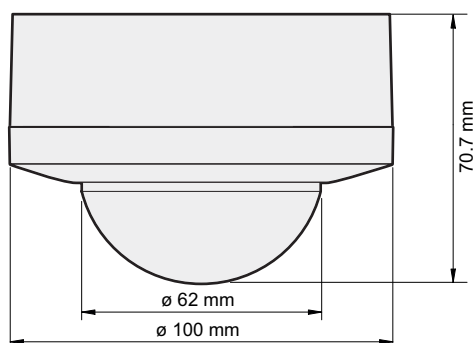
Technical data

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| Article number | 353-752421 |
| Compatible secondary detectors | 353-650021, 353-651021, 353-652021, 353-750021, 353-751021, 353-752021, 353-852011 |
| Compatible controls | 170-00005, 170-00015, 170-70015, 170-70005, 360-21001 |
| Configuration | master |
| Input voltage | 230 Vac \pm 10 %, 50 Hz |
| Detector output | DALI Broadcast/DALI Addressable |
| Maximum power consumption | 0.6 W |
| Maximum power consumption wireless link active | 0.65 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 | 200 mA |
| Maximum supply current | 250 mA |
| Maximum startup time DALI | < 1200 ms |
| Maximum PIR detection startup time | 1 min 10 s |
| Relay contact | N.O. (max. 10 A), potential-free |
| Maximum load incandescent and halogen lamps ($\cos\phi = 1$) | 2300 W |
| Maximum load fluorescent lamps ($\cos\phi \geq 0.5$) | 1200 VA |
| Maximum load fluorescent lamps ($\cos\phi \geq 0.9$) | 1200 VA |
| Maximum load economy lamps (CFLi) | 350 W |
| Maximum load LED lamps 230 V | 350 W |
| Maximum load LED driver | 500 VA |
| Maximum load electronic transformer | 500 VA |
| Maximum capacitive load | 140 μ F |
| Maximum switching current | 165 A/20 ms – 800 A/200 μ s |
| Light intensity range | 20 lux – 2000 lux, ∞ |
| Maximum number of secondary detectors | 5 |
| Maximum number of 230 V push buttons and switches | 4 |
| Maximum number of Bluetooth® push buttons | 4 |
| Maximum number of 24 V push buttons | 16 (using 4 DALI-2 push-button interfaces - max. 4 buttons per interface) |
| Possibility to override DALI lighting control using a control | yes |
| Maximum number of control gear on the DALI bus | 64 |
| Maximum number of dimmable zones | 4 |
| Switch-off delay | pulse, 30 s – 2 h, ∞ |
| Detection angle | 360° |
| Detection range (PIR) | \varnothing 37 m from a height of 3 m |
| Ambient temperature | -25 – +40 °C |
| Mounting method | surface mounting |
| Mounting height | 2 – 3.5 m |
| Colour | white (approximately RAL 9010) |
| Dimensions visible (HxWxD) | 100 x 100 x 70.7 mm |
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| Maximum range Bluetooth® (free field, depending on the device) | 50 m |
| Operating frequency | 2.4 GHz |
| Maximum radio frequency power | -2 dBm |
| Protection degree | IP54 |
| Impact resistance | IK04 |
| Modification of settings | Niko detector tool app (iOS-Android) and 2-way Bluetooth® communication |
| Halogen-free | yes |
| Marking | CE |

Accessories

353-999879 Lens cover for P4XLR, M4XLR and M4XHC detectors transparent (5 pieces)

Dimensions



Wiring diagram

