

Presence detector P47MR, DALI-2, master, 12-13 m, IP54, for surface mounting, white

353-652321

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 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
- Daylight control in 1-3 daylight zones
- 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
- 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)
 - 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
- Web based portal solution for backing up and exchanging configuration files
- IP54 protection degree
- Suitable for BMS integration



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/IEC61180



DALI-2



master



360°



Ø 12 m from
a height of
3 m



2 – 3.5 m



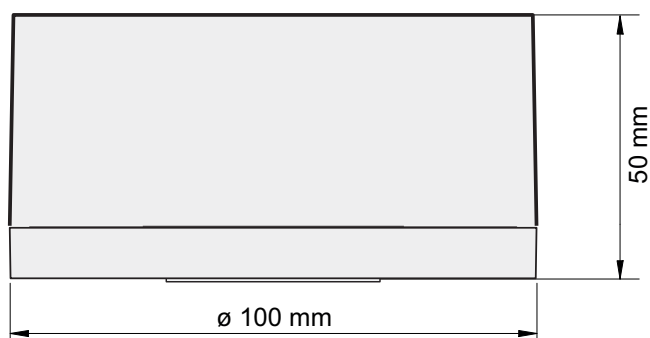
surface
mounting

niko

Technical data

| | |
|----------------------------------------------------------------|------------------------------------------------------------------------------------|
| Article number | 353-652321 |
| 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 |
| 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, ∞ |
| Maximum number of control gear on the DALI bus | 64 |
| Maximum number of dimmable zones | 3 |
| Switch-off delay | pulse, 30 s – 2 h, ∞ |
| Detection angle | 360° |
| Detection range (PIR) | \varnothing 12 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 50 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 | IK02 |
| Modification of settings | Niko detector tool app (iOS-Android) and 2-way Bluetooth® communication |
| Halogen-free | yes |
| Marking | CE |

Dimensions



Wiring diagram

