Presence detector P48LR, DALI-2, master, 32-37 m, for flush mounting (SnapFit), white

353-751421

4 year warranty

This presence detector is a DALI-2 master for DALI lighting control in up to 4 zones. The detector is fitted with multiple functions and can be controlled wirelessly using push buttons. The SnapFit mounting bracket ensures a quick and stable mounting in all types of suspended ceilings with or without removable tiles. 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
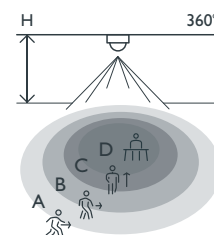Compatible controls: 170-00005, 170-00015, 170-70015, 170-70005, 360-21001
This article is protected by at least one patent (application). For more info on patents, see www.niko.eu/innovation.

- Lighting control in up to 4 zones (daylight controlled)
- SnapFit mounting bracket for easy and stable mounting
- 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 (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
- Suitable for BMS integration

Detection range

H	A Walking	B Across	C Towards	D Presence
2.5 m	⌀ 32 m	⌀ 28 m	⌀ 10 m	⌀ 8 m
3.0 m	⌀ 37 m	⌀ 30 m	⌀ 8 m	⌀ 4 m

Measured according to EN/IEC63180

Bluetooth™   DALI 2

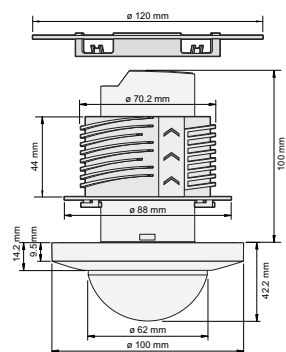| DALI-2 | master | 360° | ⌀ 37 m from a height of 3 m | 2 – 3.5 m | flush-mounting (SnapFit) |

Technical data

Article number	353-751421
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 ± 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 ($\cos\varphi = 1$)	2300 W
Maximum load fluorescent lamps ($\cos\varphi \geq 0.5$)	1200 VA
Maximum load fluorescent lamps ($\cos\varphi \geq 0.9$)	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 μF
Maximum switching current	165 A/20 ms – 800 A/200 μs
Light intensity range	20 lux – 2000 lux, ∞
Number of channels	1 channel
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, 20 s – 2 h, ∞
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	100 mm
Colour	white (approximately RAL 9010)
Dimensions visible (HxWxD)	100 x 100 x 42.2 mm
Dimensions (HxWxD)	100 x 100 x 142.2 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

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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

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