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

353-751321-3

4 year warranty

This presence detector is a DALI-2 master for DALI lighting control in up to three dimmable daylight zones. Daylight 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 DALI-2 master 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 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 353-70814 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: 353-650021, 353-651021-3, 353-652021, 353-750021, 353-751021, 353-751021-3, 353-752021, 353-852011
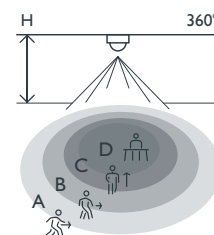
Compatible controls: 360-21001

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

Bluetooth™ DALI 2

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

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

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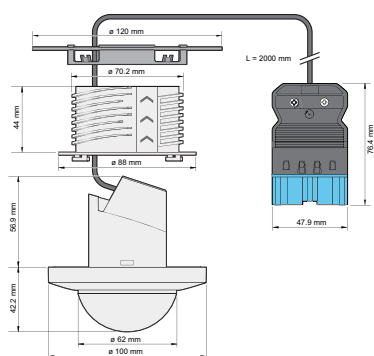- Suitable for BMS integration

Technical data

Article number	353-751321-3
Compatible secondary detectors	353-650021, 353-651021-3, 353-652021, 353-750021, 353-751021, 353-751021-3, 353-752021, 353-852011
Compatible controls	360-21001
Configuration	master
Input voltage	230 Vac ± 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 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, ∞
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	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^2
	– voltage: 250 V
	– rated current: 16 A
	– halogen-free: yes
	– ambient temperature: -5 – +70C°
	– type of connector: male, 5-pole, blue

Accessories

353-999879	Lens cover for P4XLR, M4XLR and M4XHC detectors transparent (5 pieces)
390-20001	Protection grid

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Dimensions

ø 120 mm
ø 70.2 mm
L = 2000 mm
44 mm
ø 88 mm
76.4 mm
47.9 mm
50.9 mm
42.2 mm
ø 62 mm
ø 100 mm

Wiring diagram

* Wieland Gesis® parts

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