

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

353-751321-1

4 year warranty

This presence detector is a DALI-2 master for DALI lighting control in up to three dimmable daylight zones. Lighting 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 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 DALI-2 master 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 353-70804 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, 353-651021-1, 353-652021, 353-750021, 353-751021, 353-751021-1, 353-752021, 353-852011

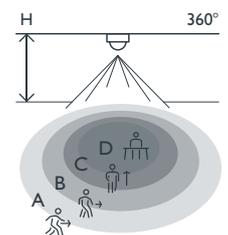
Compatible controls: 360-21001

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



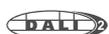
- Daylight control in 1-3 daylight zones
- SnapFit mounting bracket for easy and stable mounting in all types of suspended ceilings with or without removable tiles
- Quick cabling using screwless and easily accessible plug-in terminals
- Screwless strain relief and screwless installation of cable cover
- 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)

## 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	∅ 5 m
3.5 m	∅ 48 m	∅ 42 m	∅ 8 m	∅ 6 m

Measured according to EN/IEC63180



DALI-2



master



360°



∅ 37 m from a height of 3 m



2 – 3.5 m



flush-mounting (SnapFit)

**niko**

- Settings and configuration can be locked with a PIN code
- Web based portal solution for backing up and exchanging configuration files
- Suitable for BMS integration

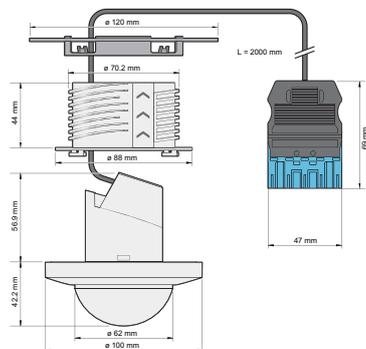
## Technical data

Article number	353-751321 -1
Compatible secondary detectors	353-650021, 353-651021-1, 353-652021, 353-750021, 353-751021, 353-751021-1, 353-752021, 353-852011
Compatible controls	360-21001
Configuration	master
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 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, $\infty$
Detection angle	360°
Detection range (PIR)	$\varnothing$ 37 m from a height of 3 m
Ambient temperature	-25 – +40 °C
Mounting method	flush-mounting (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 <sup>2</sup> – voltage: 400 V – rated current: 16 A – halogen-free: yes – ambient temperature: -5 – +40C° – type of connector: male, 5-pole, blue

## 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)
390-20001	Protection grid

## Dimensions



## Wiring diagram

