Presence detector P46LR, DALI-2, secondary - BMS, 32-37 m, for flush mounting (SnapFit), white

353-751021

This presence detector is a DALI-2 secondary and BMS detector that extends the detection range of a DALI master detector or as part of a BMS system. The SnapFit mounting bracket ensures a quick and stable mounting in all types of suspended ceilings with or without removable tiles. If the detector is used as a secondary detector and connected to a DALI bus controlled by a DALI master detector, it will start communicating with this master detector without further commissioning. If it is connected to the DALI bus of a BMS system, the detector needs to be commissioned with the BMS software. The detector's settings can be modified using the Niko detector tool app and 2-way Bluetooth® communication between a smartphone and the detector or using the BMS software.
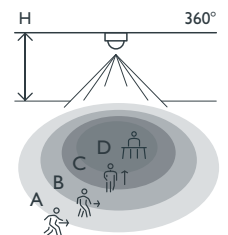Finishing colour: white
Compatible master detectors: 353-650321, 353-651321-1, 353-651421-1, 353-652321, 353-652421, 353-750321, 353-751321-1, 353-751421-1, 353-751421-2, 353-752321, 353-752421, 353-852411
This article is protected by at least one patent (application). For more info on patents, see www. niko.eu/innovation.

- Easy installation thanks to the direct connection to the DALI bus
- Communication with the master or BMS system via the DALI bus
- Power supply via the DALI bus
- 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 settings (iOS/Android) or BMS software
- 2-way Bluetooth® communication ensures quick modification of settings and live feedback in the app
- Fitted with three PIR segments, each covering 120°
- Pre-configured functions:
  – adjustable PIR sensitivity (4 levels) in 3 x 120°
  – one or more PIR segments can be disabled
  – event log keeps track of recent changes
- Settings and configuration can be locked with a PIN code

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 4 m

Measured according to EN/IEC63180

Bluetooth™ DALI 2

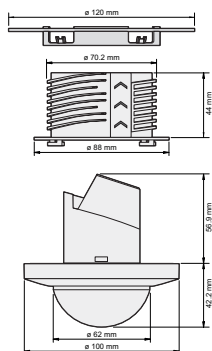| DALI-2	secondary - BMS	360°	ø 37 m from a height of 3 m	2 – 3.5 m	flush-mounting (SnapFit)

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Technical data

Article number	353-751021
Compatible master detectors	353-650321, 353-651321 -1, 353-651421 -1, 353-652321, 353-652421, 353-750321, 353-751321 -1, 353-751421 -1, 353-751421 -2, 353-752321, 353-752421, 353-852411
Input voltage	via the DALI bus
Detector output	DALI-2
Maximum current consumption	28.1 mA
Nominal current consumption (12 V, 25°C), Bluetooth® enabled	8.1 mA
Nominal current consumption (12 V, 25°C), Bluetooth® disabled	5 mA
Maximum MCB rating	16 A (limited by national installation rules)
Maximum startup time DALI	<1200 ms
Maximum PIR detection startup time	1 min 10 s
Light intensity range	0 lux – 10360 lux
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 - BMS software
Halogen-free	yes
Marking	CE

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

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Wiring diagram

Diagram 1

master								secondary				DALI zone 1					DALI zone 2					DALI zone 3				
DA-	DA+	L	L	N	N	T₁	T₁	DA	DA	DA	DA	DA	DA	L	N	⏚	DA	DA	L	N	⏚	DA	DA	L	N	⏚

L
N
DA+
DA-
⏚

DALI zone 1
L *
N

Diagram 2

master											secondary				DALI zone 1					DALI zone 2					DALI zone 3					DALI zone 4				
DA-	DA+	T₄	T₃	T₂	T₁	L	L	N	N	C	NO	DA	DA	DA	DA	DA	DA	L	N	⏚	DA	DA	L	N	⏚	DA	DA	L	N	⏚	DA	DA	L	N	⏚

L
N
DA+
DA-
⏚

DALI zone 1
L *
N

BMS

DA	DA	DA	DA

DA
DA