niko

Manual – for surface mounting

Presence / Motion detectors
P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC



4 year warranty

353-602021	353-652321	353-702121	353-752521	353-852511
353-602111	353-652421	353-702221	353-802011	
353-602121	353-652521	353-752021	353-802111	
353-602221	353-702021	353-752321	353-852011	
353-652021	353-702111	353-752421	353-852411	

EN ***P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, for surface mounting***

NL *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, voor opbouw*

FR *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, pour montage en saillie*

DE *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, für Aufputz*

DK *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, påbygget*

SE *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, för utanpåliggande montering*

NO *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, til utenpåliggende montering*

IT *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360o, per montaggio a parete*

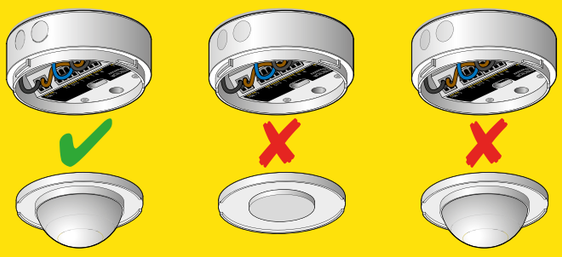
PL *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, do montażu natynkowego*

SK *P41/P42/P46/P47/P48/P49/M41/M42/M46/M48/M49 MR/LR/HC, 360°, na povrchovú montáž*

ATTENTION !

Do not separate the sensor and actor part! Both parts must have the same MAC address!

MAC:10:B9:F7:**10:01:17** MAC:10:B9:F7:**0F:83:13** MAC:10:B9:F7:**0F:6D:37**



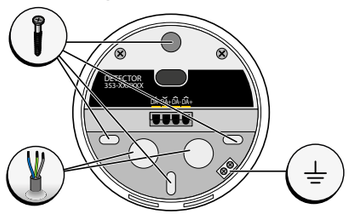
MAC:10:B9:F7:**10:01:17** MAC:10:B9:F7:**0F:6D:37** MAC:10:B9:F7:**10:6D:19**

PM353-P4XM4X-SM

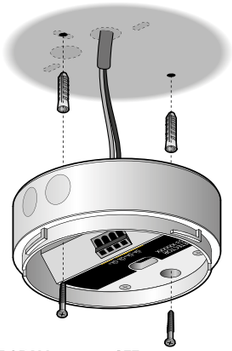
Installation

Installatie / Installation / Installation / Installation / Installation / Installasjon / Installazione / Instalacja / Inštalácia

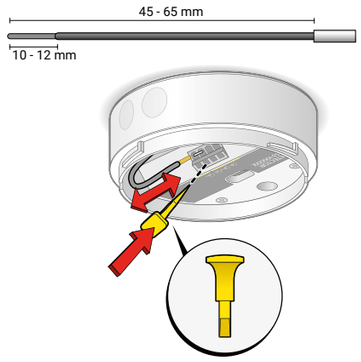
1 **230 V – OFF / DALI power – OFF**



2

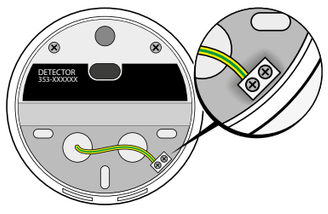


3 **230 V – OFF / DALI power – OFF**

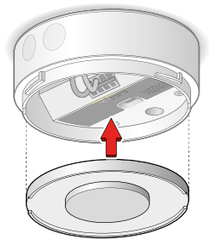


4

a

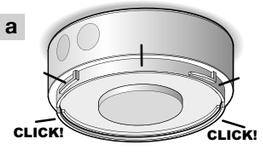


b

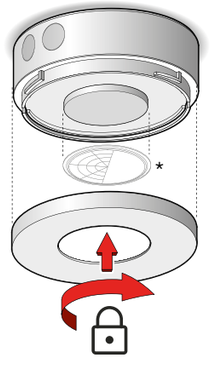


5

a



b



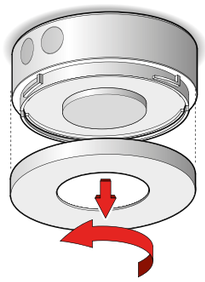
* A lens cover is optional and only suitable for specific detectors.
Check compatibility in the specifications of the lens cover at www.niko.eu

Dismantling

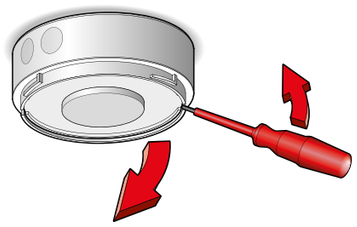
Demontage / Démontage / Demontage / Demontering / Demontera / Demontering / Smontaggio / Odmontowanie / Demontáž

230 V – OFF / DALI power – OFF

a



b



Placement

Plaatsing / Placement / Platzierung / Anbringelse / Placering / Plassering / Sistemazione / Umieszczanie / Umiestnenie

The detector reacts to movement and heat in its surroundings.

Avoid installing it close to heat sources such as stoves, electric heaters, ventilation units, or moving objects such as mobiles or similar items. These may cause false triggering.

Wiring

Aansluitschema / Schéma de raccordement / Verdrahtung / Tilslutningsskema / Kopplingsschema / Ledningstilkopling / Cablaggio / Okablowanie / Inštalácia

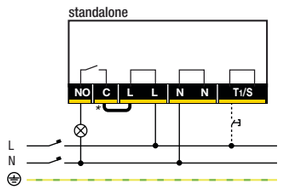
This product must be secured with a miniature circuit breaker (MCB) of max. 16 A in the electrical cabinet. The MCB rating is limited by national installation rules.

230 V detectors

Standalone

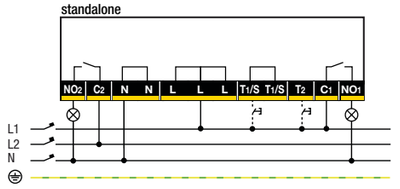
230 V – OFF

353-602111, **353-602121**, **353-702111**, **353-702121** or **353-802111** acts as standalone detector in the following configuration:



* Remove if you want to use the contact as a dry contact (potential-free).

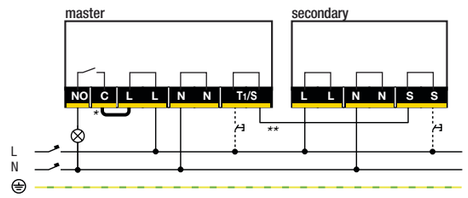
353-602221 or **353-702221** acts as standalone detector in the following configuration:



Master – secondary

230 V – OFF

353-602121, **353-702121** or **353-802111** acts as master detector in the following configuration:

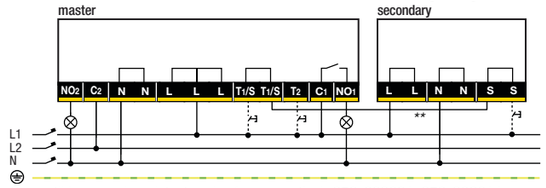


Compatible secondary detectors (surface mounting): **353-602021**, **353-702021**, **353-802011**.
For all compatible articles, see www.niko.eu

* Remove if you want to use the contact as a dry contact (potential-free).

** A wired connection between the master and secondary detector is optional. Choose either the wired connection or communication via Bluetooth®.

353-602221 or **353-702221** acts as master detector in the following configuration:



Compatible secondary detectors (surface mounting): **353-602021**, **353-802011**.
For all compatible articles, see www.niko.eu

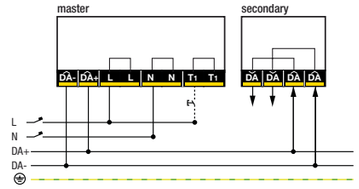
** A wired connection between the master and secondary detector is optional. Choose either the wired connection or communication via Bluetooth®.

DALI detectors

Master – secondary

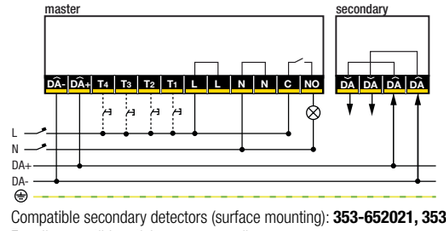
230 V – OFF / DALI power – OFF

353-652321 or **353-752321** acts as master detector in the following configuration:



Compatible secondary detectors (surface mounting): **353-652021, 353-752021, 353-852011**.
For all compatible articles, see www.niko.eu

353-652421, **353-752421** or **353-852411** acts as master detector in the following configuration:

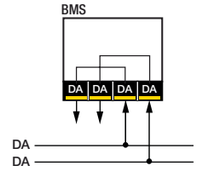


Compatible secondary detectors (surface mounting): **353-652021, 353-752021, 353-852011**.
For all compatible articles, see www.niko.eu

BMS

DALI power – OFF

353-652521, **353-752521** or **353-852511** acts as BMS detector in the following configuration:



Specifications

Specificaties / Specifications / Spezifikationen / Specifikationer / Specifikationer / Spesifikasjoner / Specifiche / Specyfikacje / Technické údaje

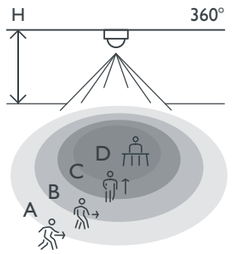
		353-602021	353-602111	353-602121	353-602221	353-652021	353-652321	353-652421	353-652521	353-702021	353-702111	353-702121	353-702221	353-752021	353-752321	353-752421	353-752521	353-802011	353-802111	353-852011	353-852411	353-852511
		P41	M42	P42	P42	P46	P47	P48	P49	P41	M42	P42	P42	P46	P47	P48	P49	M41	M42	M46	M48	M49
Installation	230 V	x	x	x	x					x	x	x	x					x	x			
	DALI-2					x	x	x	x					x	x	x	x			x	x	x
Configuration	standalone		x								x								x			
	master / standalone			x	x		x	x				x	x		x	x			x		x	
	secondary	x				x				x				x				x		x		
	BMS								x								x					x
Mounting height	2 – 3.5 m	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
	4 – 12 m																	x	x	x	x	x
Wire capacity	1.5 / 2.5 mm²	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Number of channels	1 channel		x	x							x	x							x			
	2 channels				x								x									
Maximum number of secondary detectors*	10			x	x							x	x						x			
	5							x								x					x	
	2						x								x							
Input voltage	230 Vac ± 10 %, 50 Hz	x	x	x	x		x	x		x	x	x	x		x	x		x	x		x	
	via the DALI bus					x			x					x			x			x		x
Operating frequency	2.4 GHz	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Maximum power consumption	0.2 W	x	x	x	x					x	x	x	x					x	x			
	0.5 W						x								x							
	0.65 W							x								x					x	
Maximum voltage on the DALI bus	15 Vdc						x	x							x	x					x	
Maximum supply current**	250 mA						x	x							x	x					x	
Maximum guaranteed current on DALI bus	100 mA						x								x							
	200 mA							x								x					x	
Maximum startup time DALI	< 1200 ms					x	x	x	x					x	x	x	x			x	x	x
Maximum PIR detection startup time	70 s					x	x	x	x					x	x	x	x			x	x	x
Maximum number of control gear on the DALI bus	64						x	x							x	x					x	
Maximum number of dimmable zones	3						x								x							
	4							x								x					x	
Maximum current consumption	10 mA								x								x					x
	28.1 mA					x								x						x		
Nominal current consumption (12 V, 25°C) Bluetooth® enabled	4 mA								x								x					x
	8.1 mA					x								x						x		
Nominal current consumption (12 V, 25°C) Bluetooth® disabled	3 mA								x								x					x
	5 mA					x								x						x		
Maximum radio frequency power	-2 dBm	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ambient temperature	-25 – +40 °C	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Protection degree	IP54	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Impact resistance	IK02	x	x	x	x	x	x	x	x													
	IK03																	x	x	x	x	x
	IK04									x	x	x	x	x	x	x	x					
Halogen free	yes	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Marking	CE	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

* For DALI-2 master detectors: Be aware of the maximum guaranteed current on the DALI bus.

** It is not permitted to connect additional DALI power supplies to the DALI bus of the DALI-2 master detectors.

Detection area

Detectiebereik / Portée de détection / Erfassungsbereich / Rækkevidde / Detekteringsområde / Overvåkningsområde / Campo di rilevamento / Obszar wykrywania / Oblast snímania



	H	A Walking	B Across	C Towards	D Presence
353-602121 353-602021 353-602221 353-652021 353-652321 353-652421 353-652521	2.5 m 3.0 m	ø 13 m ø 12 m	ø 11 m ø 12 m	ø 3 m ø 3 m	ø 5 m ø 5 m
353-602111	2.5 m 3.0 m	ø 13 m ø 12 m	ø 11 m ø 12 m	ø 3 m ø 3 m	- -
353-702021 353-702121 353-702221 353-752021 353-752321 353-752421 353-752521	2.5 m 3.0 m 3.5 m	ø 32 m ø 37 m ø 48 m	ø 28 m ø 30 m ø 42 m	ø 10 m ø 8 m ø 8 m	ø 8 m ø 5 m ø 6 m
353-702111	2.5 m 3.0 m 3.5 m	ø 32 m ø 37 m ø 48 m	ø 28 m ø 30 m ø 42 m	ø 10 m ø 8 m ø 8 m	- - -
353-802011 353-802111 353-852011 353-852411 353-852511	4.0 m 8.0 m 12.0 m **	ø 18 m ø 35 m ø 53 m	ø 18 m ø 33 m *	ø 11 m ø 23 m *	- - -

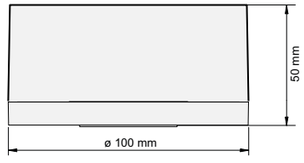
Measured according to EN/IEC63180

* Not specified

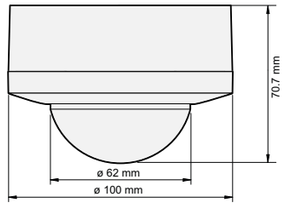
** When used in corridors, the maximum height is 8 m.

Dimensions

Afmetingen / Dimensions / Abmessungen / Dimensioner / Mått / Dimensjoner / Dimensioni / Wymiary / Rozmery



Medium Range (MR)
353-602021
353-602111
353-602121
353-602221
353-652021
353-652321
353-652421
353-652521



Long Range (LR)
353-702021
353-702111
353-702121
353-702221
353-752021
353-752321
353-752421
353-752521

High Ceiling (HC)
353-802011
353-802111
353-852011
353-852411
353-852511

App settings & more info

App-instellingen / Réglages de l'appli / App-Einstellungen / App indstillinger / Appinställningar / App-innstillinger / Impostazioni dell'app/ Ustawienia aplikacji / Nastavenia aplikácie

230 V – ON / DALI power – ON



Bluetooth®

niko detector tool

GET IT ON Google Play

Download on the App Store

The complete manual for each individual product is available in multiple languages on guide.niko.eu

LED behaviour

Ledgedrag / Comportement des LED / LED-Verhalten / LED funktioner / LED-funktioner / LED-funksjon / Comportamento del LED / Zachowanie LED / LED signalizácia

230 V – ON / DALI power – ON

Green LED continuous on	●	*Connection OK*	
Green LED breathing	●	*Connection OK, overrule ON*	
Green LED flashing	●	*Warming up**	*Wait*
Red LED continuous on	●	*Error*	*More info**:*
Red LED flashing	●	*Warning*	niko detector tool
Blue LED flashing	●	*Movement detected during walk test*	

* When Bluetooth® communication is disabled, the green LED does not flash while warming up.

** More info / Meer informatie / Plus d'info / Mehr Info / Mere info / Mer information / Mer info / Ulteriore info / Więcej informacji / Viac informácií

Support & contact

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Industriepark West 40
9100 Sint-Niklaas, Belgium

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	France:	+33 820 20 66 25	support.fr@niko.eu
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