




Switching with 1 or 2-channel Master with daylight evaluation

Occupancy detector	Page				Clip	Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2-M-1C	42	92550	92565	92555	–	▪	▪	▪	Ø 10 m	–
PD4-M-1C	43	92580	92585	92575	–	▪	▪	▪	Ø 24 m	–
PD4-M-1C-C	44	92587	92586	–	–	▪	▪	▪	Ø 40 m	–
PD4-M-1C-C-PS	45	92485	92480	–	–	▪	▪	▪	Ø 24 m	additional security contact
PD4-M-1C-GH	46	92245	–	–	–	▪	▪	▪	Ø 30 m	large mounting height
PD5-M-1C-Clip	47	–	–	–	92315	▪	▪	▪	Ø 10 m	For T8 and T5 fluorescent lamps
PD9-M-1C	48	–	92900 – white	–	–	▪	▪	▪	Ø 10 m	Mini detector
PD9-M-1C-GH	49	–	92923 – white	–	–	▪	▪	▪	Ø 6 m	large mounting height
PD9-M-1C-SDB-IP65	50	–	92912 – white 92913 – silver	–	–	▪	▪	▪	Ø 10 m	Mini detector
PD9-M-1C-SDB-IP65-GH	51	–	92931 – white	–	–	▪	▪	▪	Ø 6 m	large mounting height
PICO-M-1C	52	–	92712	–	–	▪	▪	▪	Ø 10 m	Mini detector
PD11-M-1C	53	–	92583	–	–	▪	▪	▪	Ø 9 m	Super flat
PD1N-M-2C	54	92877	92874	92870	–	▪	▪	▪	7.50 x 7.50 m	Square area
PD2-M-2C	55	92150	92165	92155	–	▪	▪	▪	Ø 10 m	–
PD4-M-2C	56	92140	92148	92255	–	▪	▪	▪	Ø 24 m	–
PD4-M-2C-C	57	92440	92143	92443	–	▪	▪	▪	max. Ø 40 m	Corridor detector
PD9-M-2C	58	–	92976	–	–	▪	▪	▪	Ø 10 m	with HVAC channel
PD4-M-2C-DUO	59	92158	92251	92252	–	▪	▪	▪	Ø 24 m	–
PD4-M-2C-DS	60	–	92760	–	–	▪	▪	▪	Ø 24 m	–
PD4-M-TRIO-C-3P	61	–	92746	–	–	▪	▪	▪	Ø 40 m	–
PD4-M-3C-TRIO	62	92740	92745	–	–	▪	▪	▪	Ø 24 m	–

Dimming with 1 or 2-channel Master with daylight evaluation

PD1N-M-DIM	63	–	92876	–	–	▪	▪	▪	7.50 x 7.50 m	Square area
PD2-M-DIM	64	92153	92167	92157	–	▪	▪	▪	Ø 10 m	–
PD4-M-DIM	65	92147	92247	92248	–	▪	▪	▪	Ø 24 m	–
PD4-M-DIM-C	66	92218	92217	–	–	▪	▪	▪	max. Ø 40 m	Corridor detector
PD5-M-DIM-Clip	67	–	–	–	92310	▪	▪	▪	Ø 10 m	For T8 and T5 fluorescent lamps
PD9-M-DIM	68	–	92910 – white	–	–	▪	▪	▪	Ø 10 m	Mini-Melder
PD9-M-DIM-GH	69	–	92924 – white	–	–	▪	▪	▪	Ø 6 m	large mounting height
PD4-M-DIM-HVAC	70	–	92507 – 3A 92547 – 16A	–	–	▪	▪	▪	Ø 24 m	with HVAC channel
PD9-M-DIM-HVAC	71	–	92973	–	–	▪	▪	▪	max. Ø 10 m	with HVAC channel
PD4-M-DUO-DIM	72	92271	92272	92273	–	▪	▪	▪	Ø 24 m	–
PD4-M-TRIO-DIM	73	92730	92735	–	–	▪	▪	▪	Ø 24 m	–

Occupancy detector for DALI/DSI

PD2-M-DALI/DSI	74	92280	92258	–	–	▪	▪	▪	Ø 10 m	–
PD4-M-DALI/DSI	75	92279	92275	–	–	▪	▪	▪	Ø 24 m	–
PD4-M-DALI/DSI-C	76	92530	92328	–	–	▪	▪	▪	max. Ø 40 m	Corridor detector
PD9-M-DALI/DSI	77	–	92920	–	–	▪	▪	▪	Ø 10 m	Mini detector
PD9-M-DALI/DSI-GH	78	–	92938	–	–	▪	▪	▪	Ø 6 m	large mounting height
PD2-M-DALI/DSI-1C	79	–	92486	–	–	▪	▪	▪	Ø 10 m	with HVAC channel
PD2-M-DALI/DSI-HVAC	80	–	92698	–	–	▪	▪	▪	Ø 10 m	with HVAC channel
PD4-M-DALI/DSI-1C	81	–	92488	–	–	▪	▪	▪	Ø 24 m	with HVAC channel
PD4-M-DALI/DSI-HVAC	82	–	92699	–	–	▪	▪	▪	Ø 24 m	with HVAC channel
PD4-M-DUO-DALI/DSI	83	–	92276	–	–	▪	▪	▪	Ø 24 m	–
PD4-M-TRIO-DALI/DSI	84	92750	92755	–	–	▪	▪	▪	Ø 24 m	–
PD4-M-TRIO-2DALI/DSI-1C	85	92751	92756	–	–	▪	▪	▪	Ø 24 m	TRIO detector with additional relay contact
PD4-M-DAA4G	86	92743	92591	–	–	▪	▪	▪	Ø 24 m	addressable DALI detector

Cost-effective extension of detection area with slave devices

Detector	Page				Clip	Daylight evaluation	Motion detection	Remote control-capable	Range	Additional functions
PD1N-S	87	92878	92875	92872	–	–	▪	–	7.50 x 7.50 m	Square area
PD2-S	88	92152	92166	92156	–	–	▪	–	Ø 10 m	–
PD4-S	89	92142	92254	92163	–	–	▪	–	Ø 24 m	–
PD4-S-C	90	92442	92444	92445	–	–	▪	–	max. Ø 40 m	Corridor detector
PD4-S-GH	91	92265	–	–	–	–	▪	–	Ø 30 m	large mounting height
PD4-S-DAA4G	86	92759	92721	–	–	–	▪	–	Ø 24 m	compatible with PD4-M-DAA4G
PD5-S	92	–	–	–	92316	–	▪	–	Ø 10 m	For T8 and T5 fluorescent lamps
PD9-S	93	–	92905	–	–	–	▪	–	Ø 10 m	Mini detector
PD9-S-SDB	50	–	92915	–	–	–	▪	–	Ø 10 m	Mini detector
PD9-S-SDB-GH	51	–	92933	–	–	–	▪	–	Ø 6 m	large mounting height
PD9-S-GH	94	–	92928	–	–	–	▪	–	Ø 6 m	large mounting height
PICO-S	95	–	92700	–	–	–	▪	–	Ø 10 m	–
PD11-S	96	–	92593	–	–	–	▪	–	Ø 9 m	Super flat

11-48V-Occupancy detector

PD2-M-2C-11-48V-3A	97	92154	92164	–	–	▪	▪	▪	Ø 24 m	3 A version
PD2-M-2C-11-48V-RR	97	92305	92306	–	–	▪	▪	▪	Ø 24 m	with reed relay
PD2N-LTMS	98	–	92113	–	–	▪	▪	▪	Ø 10 m	Output of the values as analogue voltage
PD2N-LTMS-RR	99	–	92119	–	–	▪	▪	▪	Ø 10 m	with reed relay
PD4N-LTMS-RR	100	–	92709	–	–	▪	▪	▪	Ø 24 m	with reed relay

Occupancy detectors for KNX BUS for switching or dimming

PD2-KNX	101	92880	92881	92882	–	▪	▪	–	Ø 10 m	For dimming
PD4-KNX	102	92883	92884	92885	–	▪	▪	–	Ø 24 m	For dimming
PD4-KNX-C	103	92886	92887	92888	–	▪	▪	–	max. Ø 40 m	For dimming
PD4-KNX-GH	104	92889	–	–	–	▪	▪	–	Ø 30 m	large mounting height
PD9-KNX	105	–	92890	–	–	▪	▪	–	Ø 10 m	For dimming
PD9-KNX-GH	106	–	92891	–	–	▪	▪	–	Ø 6 m	large mounting height
PD11-KNX-FLAT	107	–	92893	–	–	▪	▪	–	Ø 8 m	For dimming

Occupancy detectors for LON-BUS

PD2N-LON	108	92734	92736	–	–	▪	▪	▪	Ø 10 m	–
PD4N-LON	109	92834	92831	–	–	▪	▪	▪	Ø 24 m	–
PD9N-LON	110	–	92989	–	–	▪	▪	▪	Ø 10 m	Mini detector

General

- Unlike motion detectors, occupancy detectors can also switch off lighting if there is sufficient daylight, because of their advanced mixed light measurement (the principle on which occupancy detectors are based).
- Do not install detectors near air-conditioning units or radiators.
- Ensure a suitable distance from lights, which also represent a heat source. Their temperature can influence the detector.

Master occupancy detector

- Master devices must not be connected in parallel – extend the detection area with cost-effective slave devices.
- Always position the master device as light controller at the darkest point in the room.

Master 2-channel occupancy detector

- Time delay of 5 min. for follow-up times > 15 min.
- In automatic mode, artificial light is switched off for energy saving when there is sufficient daylight.
- Alarm pulse (for some versions): The detector only triggers when at least 3 movements are recorded within 9 seconds

DIM- and DALI occupancy detector

- The dimming version is a cost-effective and simple way to create a constant light control circuit – settings via remote control.
- With DIM devices, the mounting position is essential for the lighting level – the position must be such that only artificial light is detected which is controlled by the DIM detector itself.
- Two dimming channels dim and switch on lighting when people are present and when there is not enough light and switch it off when no people are present or there is enough light. Manual light dimming with common push button. Lighting control takes place independently.
- Settings can be made manually or by remote control for both channels together

DUO occupancy detector

- Common presence detection of people in both lighting areas. The detector's two directional light sensors simultaneously measure brightness in two different areas of the room independently of each other (e.g. areas near to and far from the window) and compare them with both pre-set brightness switching values.
- Two switching channels with independent light measurement and 1 push button per channel.

TRIO occupancy detector

- In addition to the functionality of a DUO occupancy detector, TRIO occupancy detectors have a third output. This can optionally be used to control an additional lighting circuit (blackboard lighting) or to control HVAC units.

Corridor occupancy detector

- The increased range of 20 metres on each side can only be achieved in one axis which should be the same as the direction of the corridor. Important: The corridor window is essential for the mounting orientation of the corridor detector. If reattached wrongly, the optimal range cannot be achieved.
- For angles of $\pm 80^\circ$ to this axis, the standard PD4 range applies

PD9 occupancy detector

- The PD9 detector with extremely small sensor head and the detector's power supply have especially been developed for the use in lights and for being installed in suspended ceilings
- Because of the smaller size of the lens, the volumetric sensitivity of this occupancy detector is smaller than that of the PD1N to PD5 series since the PD9 has fewer lens segments.

Overview of range in relation to mounting height

PD1N occupancy detector

Range (square) T=18°C		
Mounting height	Seated activity	Walking across
2.00 m	(3.10 x 3.10) m ²	–
2.50 m	(4.20 x 4.20) m ²	(7.50 x 7.50) m ²
3.00 m	(6.10 x 6.10) m ²	(8.90 x 8.90) m ²
3.50 m	(7.50 x 7.50) m ²	(10.50 x 10.50) m ²
4.00 m	–	(11.50 x 11.50) m ²
4.50 m	–	(13.40 x 13.40) m ²

PD4 occupancy detector

Range (circular detection) T=18°C			
Mounting height	Seated activity	Walking across	Walking towards
2.00 m	r=2.60 m	r=8.50 m	r=3.20 m
2.50 m	r=3.20 m	r=12.00 m	r=4.00 m
3.00 m	r=3.80 m	r=14.50 m	r=4.80 m
3.50 m	r=4.50 m	r=17.00 m	r=5.50 m
4.00 m	–	r=19.50 m	r=6.80 m
4.50 m	–	r=22.00 m	r=7.20 m
5.00 m	–	r=24.00 m	r=8.00 m
10.00 m	–	r=24.00 m	r=8.00 m

PD11 occupancy detector

Range (circular detection) T=18°C			
Mounting height	Seated activity	Walking across	Walking towards
2.00 m	r=1.20 m	r=3.60 m	r=2.40 m
2.50 m	r=1.50 m	r=4.50 m	r=3.00 m
3.00 m	r=1.80 m	r=5.40 m	r=3.60 m
3.50 m	r=2.10 m	r=6.30 m	r=4.20 m
4.00 m	r=2.40 m	r=7.20 m	r=4.80 m
4.50 m	r=2.70 m	r=8.10 m	r=5.40 m
5.00 m	r=3.00 m	r=9.00 m	r=6.00 m

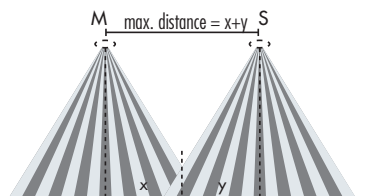
∅=diameter
r=radius

Detector positioning



Maximum motion detection is achieved by walking across the detection area, not by walking towards it. This should be borne in mind when it comes to corridors.

Detector distance



In order to eliminate potential "dead zones", detection areas may overlap.

PD2- and PD9 occupancy detector

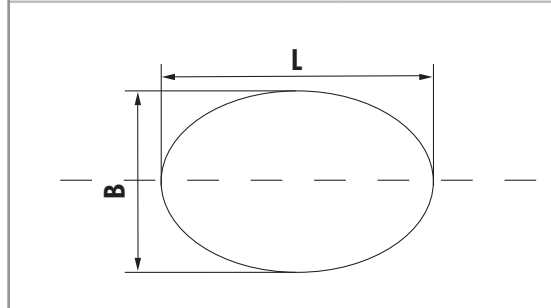
Range (circular detection) T=18°C			
Mounting height	Seated activity	Walking across	Walking towards
2.00 m	r=1.60 m	r=4.00 m	r=2.50 m
2.50 m	r=2.00 m	r=5.00 m	r=3.00 m
3.00 m	r=2.40 m	r=6.00 m	r=3.70 m
3.50 m	–	r=7.00 m	r=4.30 m
4.00 m	–	r=8.00 m	r=4.80 m
4.50 m	–	r=9.00 m	r=5.40 m
5.00 m	–	r=10.00 m	r=6.00 m

PD9-GH occupancy detector

Range (circular detection) T=18°C	
Mounting height	Walking across
5.00 m	∅=3.00 m
6.00 m	∅=3.50 m
7.00 m	∅=4.20 m
8.00 m	∅=4.80 m
9.00 m	∅=5.40 m
10.00 m	∅=6.00 m

PD4-M-1C-GH occupancy detector

Range (oval detection) T=17°C		
Mounting height	in longitudinal axis (L)	90° to longitudinal axis (B)
2.00 m	10.00 m	7.00 m
2.50 m	12.50 m	9.00 m
3.00 m	15.00 m	10.00 m
3.50 m	18.00 m	12.00 m
4.00 m	21.00 m	14.00 m
4.50 m	24.00 m	16.00 m
5.00 m	26.00 m	18.00 m
6.00 m	26.00 m	18.00 m
7.00 m	28.00 m	19.00 m
8.00 m	28.00 m	19.00 m
9.00 - 14.00 m	30.00 m	19.00 m



New functions with the 5.0 application

- Well-arranged ETS user-interface
- The following settings can be modified during operation using the optional remote control or via communication objects (visualisation):
 - Test mode
 - LEDs on/off
 - Change follow up time
 - Lux value
 - Switch between automatic and semi-automatic mode
 - Activation / deactivation of burn-in time (1 to 100 h) for fluorescent lamps
- Variable safety pause after switch-off of the lights (during this time, the detector will not react on movement). The duration can be defined between 1 to 60 seconds.
- Possibility to block a connected pushbutton when the light switches off automatically due to sufficient ambient light. It is not possible to switch on the light manually.
- Intelligent central-off function
- Corridor function
- Extra HVAC channel
- The switching operation of the detector, normally 1 bit, can be changed to 1 byte or 1 bit and 1 byte
- The output parameters can be used to activate or deactivate scenes

