DATA SHEET

PD-C 180i/16 Touch KNX

Item number	GTIN
EP10460104	4015120460104



5 YEARS MANUFACTURER WARRANTY

Ø 16 m | 180° | KNX | IP40 | 2 CH | 1 CH | IR

Product description

- **KNX** Presence detector with **180° field of detection** for wall mounting
- **Simple touch operation** by contact on the smoke alarm
- **range of up to 16 m** in the diameter at a recommended installation height of 1.1 - 2.2 m
- **In-built acoustic sensor** perfect for use in areas with a complex layout
- For use in KNX (EIB), TP (twisted pair) bus system in conjunction with other KNX components
- Parameter and function settings via ETS (Engineering Tool Software)

Special Product Features:

- Touch function with touch-sensitive lens
- Acoustic sensor
- KNX functions: Twilight switch, motion direction detection function, brightness detection via object, light-dependent motion detection, night-light feature (7 colours available)

Technical data

GENERAL	
Device category	Wall-mounted presence detector
User interface	IR remote control, ETS-Software
Remote controllable	✓
Conformity	CE, EAC, RoHS, WEEE
Warranty	5 years

ATTACHMENT	
Installation type	Flush-mounted/Device socket Ø 68 mm
Installation position	Wall
Installation dimension	Installation depth: 25 mm, Ø 60 mm
Type of connection	Push terminal
Connectable wire cross section	0.6 – 0.8 mm²

HOUSING	
Dimensions	Length 70 mm x Width 70 mm x Height 55 mm
Weight	45 g
Material	UV-stabilised polycarbonate
Protection type	IP40
Protection type with accessory	IP44 depending on cover (order separately)
Permissible ambient temperature	5 °C...+50 °C
Relative humidity	5 – 93 %, non-condensing
Colour	white, similar to RAL 9010

ELECTRICAL VERSION	
Control system	KNX
Protection class	III
Nominal voltage	29 – 31 V DC
Power consumption	0.2 W
Power consumption	6 mA

SENSORS	
Detection angle	180° horizontal, 60° vertical
Detection range tangential Manual measurement	Ø 16 m
Detection range radial Manual measurement	Ø 12 m
Erfassungsreichweite Präsenz Manuelle Messung	Ø 8 m
Field of detection	up to 101 m²
Recommended installation height	1.1 m
Max. mounting height	2.2 m
Light measurement	mixed light
Level of brightness	5 – 2000 lx

CHANNELS (LIGHTING / HVAC)	
Number of light channels	2
Number of HVAC-channels	1
Push button input lighting	1
Push button input HVAC	✓
Slave input	✓
Mode	Semi-automatic, Fully automatic
Constant light control	✓
Sensitivity configurable	✓
KNX input	manual light control, block objects, slave
KNX output	presence, status, light value, HVAC
KNX functions	Presence simulation, Manual override, Master- / slave-toiminto, Night-light feature, Sensitivity configurable, Sends a telegram at regular intervals

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ESYLUX

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Channel	**C1** Lighting
Function	Switching, Regulate
Switch contact	Bus system
Push button input	–
Impulse mode	–
Switch-off delay time	30 s...30 min (adjustable in steps)
Orientation light	disabled/0 – 50 %, 2 values can be selected
Switch-off delay time, orientation light	60 s...250 min
Channel	**C2** Lighting
Function	Switching, Regulate
Offset setting	c2 offset from c1 (-50 % to +50 %)

Switch contact	Bus system
Push button input	–
Switch-off delay time	10 s...60 min (adjustable in steps)
Orientation light	disabled/0 – 50 %, 2 values can be selected
Switch-off delay time, orientation light	60 s...250 min
Channel	**C3** HVAC
Function	Switching
Push button input	–
Switch-on delay	120 s...30 min
Switch-off delay time	10 s...60 min (adjustable in steps)

Factory settings

GENERAL	
Sensitivity	60 %
Orientation light, depending on brightness	✓
Switching threshold for orientation light	500 lx
Luminous efficiency switch-on value	60 %

CHANNELS (LIGHTING / HVAC)	
Channel	**C1** Lighting
Operating mode	fully automatic
Level of brightness/switching threshold	500 lx
Switch-off delay time	5 min
Luminous efficiency of orientation light	10 %
Channel	**C2** HVAC
Operating mode	fully automatic
Level of brightness/switching threshold	500 lx
Switch-off delay time	5 min
Luminous efficiency of orientation light	25 %

Accessories

Product designation	Item number	Product description	GTIN
Cover			
COVER IP20 WH	EM10055102	Cover for wall detectors from the STANDARD series, IP20, white, similar to RAL 9010	4015120055102
COVER IP20 SWH	EM10055119	Cover for wall detectors from the STANDARD series, IP20, white, similar to RAL 9016	4015120055119
COVER IP20 CWH	EM10055126	Cover for wall detectors from the STANDARD series, IP20, white, similar to RAL 1013	4015120055126
COVER IP20 AN	EM10055133	Cover for wall detectors from the STANDARD series, IP20, anthracite, similar to RAL 7021	4015120055133
COVER IP20 SR	EM10055140	Cover for wall detectors from the STANDARD series, IP20, silver	4015120055140
COVER ELK RS/PLUS IP20 WH	EM10055270	Cover for wall detector fits with Elko RS/PLUS, IP20, white	4015120055270
COVER IP44 WH	EM10055157	Cover for wall detectors from the STANDARD series, IP44, white	4015120055157
COVER BER S1 IP20 PWH	EP10427107	Cover for wall detector fits with Berker S.1, IP20, polar white	4015120427107
COVER BUJ REF IP20 WH	EP10427145	Cover for wall detector fits with Busch-Jäger Reflex, IP20, white	4015120427145
COVER GIR S55 IP20 WH	EP10427169	Cover for wall detector fits with Gira Standard 55, IP20, white	4015120427169
COVER GIR S55 IP20 CWH	EP10427176	Cover for wall detector fits with Gira Standard 55, IP20, cream white	4015120427176
Mounting			
MOUNTING BOX IP44 SM WH	EM10055164	Surface-mounted box for wall detectors from the STANDARD series, IP44, white	4015120055164
Remote control			
ESY-Pen	EP10425356	ESY-Pen and ESY-App, two tools for every task: (1) Parameterisation, (2) remote control, (3) light measurement, (4) project management	4015120425356

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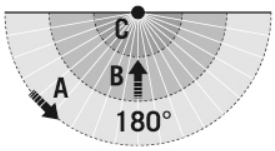
Accessories

Product designation	Item number	Product description	GTIN
REMOTE CONTROL PDi/USER	EM10425547	IR remote control for end users of presence detectors	4015120425547

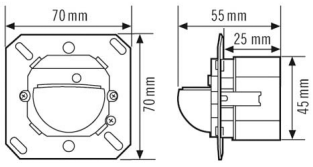
Field of detections



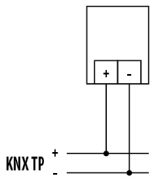
Detection range

Installation height	Tangential A Manual measurement	Radial B Manual measurement	Presence C Manual measurement
1.1 m	Ø 16 m	Ø 12 m	Ø 8 m

Dimension drawing



Circuit diagram



Standard operation.

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Detailed product description

- **KNX** Presence detector with **180° field of detection** for wall mounting
- **Simple touch operation** by contact on the smoke alarm
- **No KNX button required for semi-automatic!**
- **range of up to 16 m** in the diameter at a recommended installation height of 1.1 - 2.2 m
- **In-built acoustic sensor** perfect for use in areas with a complex layout
- For use in KNX (EIB), TP (twisted pair) bus system in conjunction with other KNX components
- Parameter and function settings via ETS (Engineering Tool Software)
- Manual, temporary switching/dimming via user remote control
- Communication objects (full listing of communication objects at www.esylux.com)
  - Constant light control or switching
  - Heating, ventilation and air conditioning (HVAC)
  - Block object for heating, ventilation and air conditioning (HVAC)
  - Light value output (2 byte)
  - Status report
  - Presence output (Heating, ventilation and air conditioning) HVAC
  - Can be used as "master" or "slave"
  - KNX button control for light channels
  - Fully automatic or semi-automatic
  - 2 light values selectable for orientation light 0 % - 50 %
  - Test mode
  - Correction factor for interior lighting
  - Night-light feature
- Targeted masking out of areas by means of an enclosed lens mask