DATA SHEET

ESYLUX

PD-FLAT 360i/8 ROUND WHITE FM KNX

Item number	GTIN
EP10423222	4015120423222

Product description

- **KNX** Design recessed ceiling-mounted presence detector with **360° field of detection**
- **Range of approx. 8 m in Ø** at a recommended installation height of 3 m (maximum mounting height 5 m)
- 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)
- Low profile design with plastic design covers: round, white - variably interchangeable

5 YEARS MANUFACTURER WARRANTY

Technical data

GENERAL

Device category	Ceiling-mounted presence detector
Included in delivery	includes lens mask
User interface	IR remote control with "blue mode" technology
Remote controllable	✓
Conformity	CE, EAC, RoHS, SundaHus, WEEE
Warranty	5 years

ATTACHMENT

Installation type	Flush-mounted/Device socket Ø 68 mm
Installation position	Ceiling
Installation dimension	Installation depth: 100 mm, Ø 68 mm
Type of connection	Push terminal
Connectable wire cross section	1.5 − 2.5 mm²

HOUSING

Dimensions	Height/Depth 76 mm, Ø 94 mm
Weight	113.166 g
Material	UV-stabilised polycarbonate
Protection type	IP20
Permissible ambient temperature	0 °C...+50 °C
Relative humidity	5 − 93 %, non-condensing
Colour	white, similar to RAL 9010

ELECTRICAL VERSION

Control system	ON/OFF
Protection class	II
Nominal voltage	230 V ~ / 50 Hz

In-rush current	78 A / 5 µs
Power consumption	0.3 W

SENSORS

Detection angle	360°
Detection range diagonally	Ø 8 m
Detection range head-on	Ø 6 m
Detection range presence	Ø 4 m
Field of detection	up to 50 m²
Recommended installation height	2.5 m
Max. mounting height	5 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
Switching delay from "dark to light"	300 s
Switching delay from "light to dark"	30 s
Constant light control	✓
KNX input	manual light control, block objects, reset, slave
KNX output	presence, status, light value, HVAC
KNX functions	Presence simulation, Manual override, Master- / slave-toiminto, Night-light feature,

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	Sensitivity configurable, Sends a telegram at regular intervals
Channel	**C1** Lighting
Function	Switching, Regulate
Switch contact	Bus system
Push button input	–
Impulse mode	–
Switch-off delay time	30 s...720 min (adjustable in steps)
Orientation light	disabled/10 – 50 %, 2 values can be selected
Switch-off delay time, orientation light	60 s...240 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/10 – 50 %, 2 values can be selected
Switch-off delay time, orientation light	60 s...250 min
Channel	**C3** HVAC
Function	Switching
Switch contact	Bus system
Push button input	–
Switch-off delay time	10 s...60 min (adjustable in steps)

Factory settings

GENERAL

Sensitivity	100 %

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	60 min

Accessories

| Product designation	Item number	Product description	GTIN
Cover			
FLAT COVER ROUND WH	EP00007231	Cover for FLAT series, round, white	4015120007231
FLAT COVER ROUND BK	EP00007279	Cover for FLAT series, round, black	4015120007279
FLAT COVER ROUND GY	EP00007316	Cover for FLAT series, round, grey	4015120007316
FLAT COVER LARGE ROUND WH	EP10428579	Cover for FLAT series, 105 mm, round, white	4015120428579
FLAT COVER LARGE ROUND BK	EP10428098	Cover for FLAT series, 105 mm, round, black	4015120428098
FLAT COVER SQUARE WH	EP00007248	Cover for FLAT series, square, white	4015120007248
FLAT COVER SQUARE BK	EP00007286	Cover for FLAT series, square, black	4015120007286
FLAT COVER GLASS ROUND WH	EP00007255	Cover for FLAT series, glass, round, white	4015120007255
FLAT COVER GLASS ROUND BK	EP00007293	Cover for FLAT series, glass, round, black	4015120007293
FLAT COVER GLASS ROUND GY	EP00007323	Cover for FLAT series, glass, round, grey	4015120007323
FLAT COVER GLASS SQUARE WH	EP00007262	Cover for FLAT series, glass, square, white	4015120007262
FLAT COVER GLASS SQUARE BK	EP00007309	Cover for FLAT series, glass, square, grey	4015120007309
Protection			
BASKET GUARD ROUND LARGE	EM10425608	Basket guard for presence and motion detectors and smoke detectors, Ø 180 mm, height 90 mm	4015120425608
BASKET GUARD ROUND SMALL	EM10425615	Basket guard for presence and motion detectors and smoke detectors, Ø 165 mm, height 70 mm	4015120425615
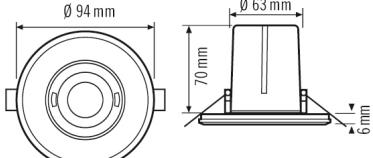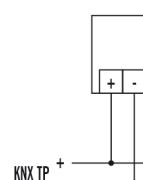
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Product designation	Item number	Product description	GTIN
Remote control			
ESY-Pen	EP10425356	ESY-Pen and ESY-App, two tools for every task: (1) Parameterisation, (2) remote control, (3) light measurement, (4) project management	4015120425356
TELESCOPE MAGNET	EC10430022	Telescope magnet	4015120430022
REMOTE CONTROL PDi/USER	EM10425547	IR remote control for end users of presence detectors	4015120425547

Dimension drawing

Circuit diagram

Standard operation.

Detailed product description

- **Recessed ceiling mounted KNX presence detector with 360° field of detection**
- **Range of approx. 8 m in Ø** at a recommended installation height of 3 m (maximum mounting height 5 m)
- 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 10 % - 50 %
  - Test mode
  - Correction factor for interior lighting
  - Sensitivity sensor, adjustable from 1 to 4
- Flush-mounted device as standard
- Recessed ceiling mounting possible with accessories
- Targeted masking out of areas by means of an enclosed lens mask