

smartSWITCH 5DP 14f

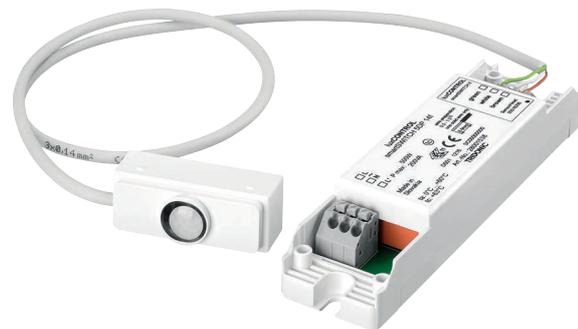
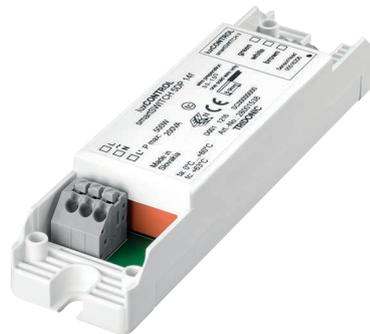
Automatic switching based on presence and light level

Product description

- Motion detector for luminaire installation
- For automatic on/off switching of luminaires with electronic ballasts and LED Drivers
- „Bright-Out“ function: luminaire is not switched on if there is adequate brightness
- Maximum of 1 sensor possible
- Low-profile casing (21 x 30 mm)
- For a maximum of 2 LED Drivers
- Delay time and light value for the „Bright-Out“ function can be set via 2 potentiometers



Wiring diagrams and installation examples, page 3



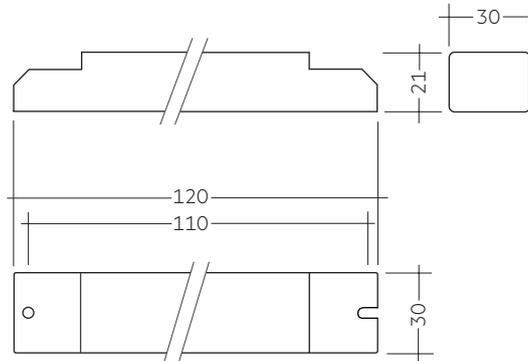


smartSWITCH 5DP 14f

Automatic switching based on presence and light level

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power (output on)	0.6 W
Output, standby (output off)	0.35 W
Ambient temperature ta	0 ... +60 °C



Ordering data

Type	Article number	Packaging carton	Weight per pc.
smartSWITCH 5DP 14f	28001538	10 pc(s).	0.057 kg

Specific technical data

Type	Inputs			Output, relay (L)		
	Max. Smart SWITCH sensors	Sensor cable length	L' (switched phase)	Max. switching output (e.g. LCA) ⁹⁾	Max. switching output [W]	Max. switching output [VA]
smart SWITCH 5DP 14f	1	0,54 m	220 – 240 V	2	500 W	200 VA

⁹⁾ Due to the inrush current, not more than 2 Driver with a total power of 500 W can be connected to the smartSWITCH controller.

ACCESSORIES

5DPI 14f Mounting Kit

Product description

- Mounting frame for attaching all 5DP 14f sensor directly to the luminaire housing
- Shutter for preventing movement detection in one direction

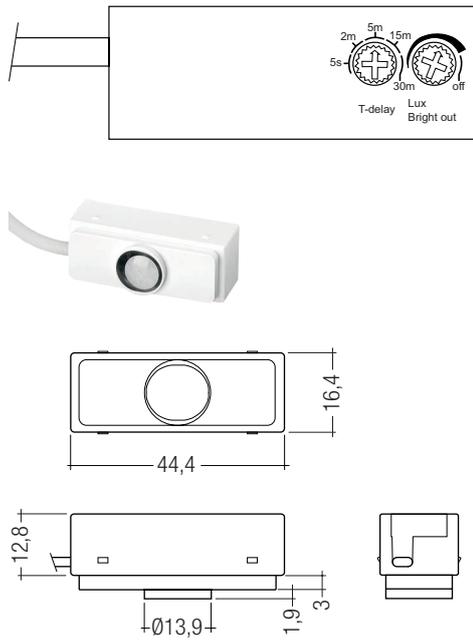


Ordering data

Type	Article number	Packaging carton	Weight per pc.
5DPI 14f mounting kit	28001558	100 pc(s).	0.004 kg
5DPI 14f mounting kit black	28001575	100 pc(s).	0.004 kg

smartSWITCH Sensor

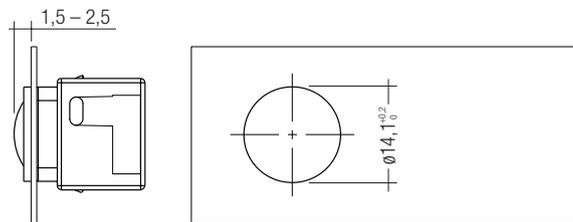
cable entry point on the side



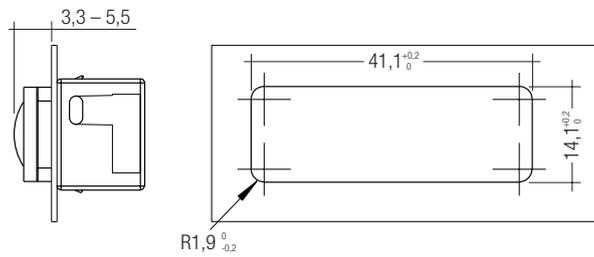
Ultra-compact luminaire mounted sensor for ambient light and detection of movement.

Mounting variants luminaire housing:

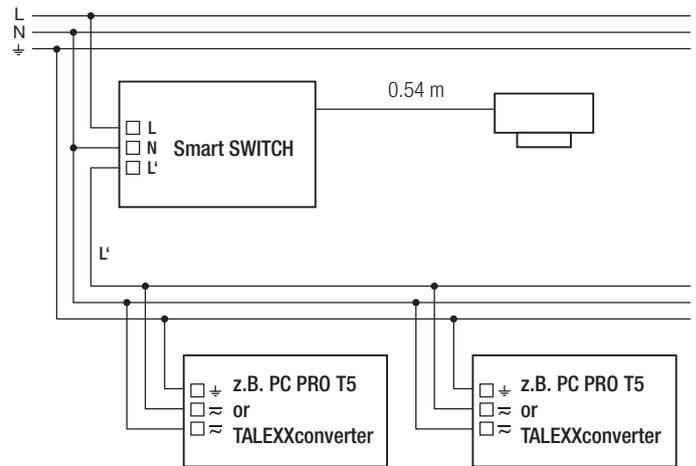
Size of the sheet: 0.8 – 1.8 mm



Size of the sheet: 0.8 – 3.0 mm



Wiring diagram



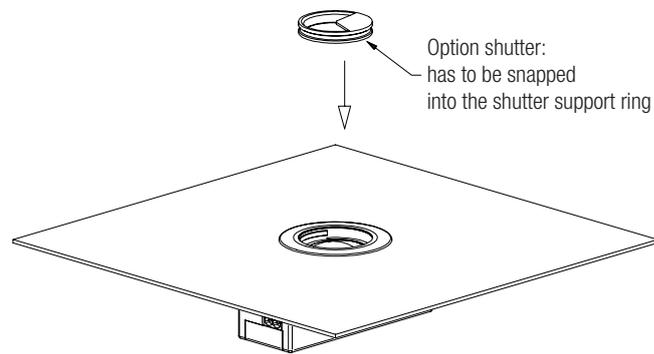
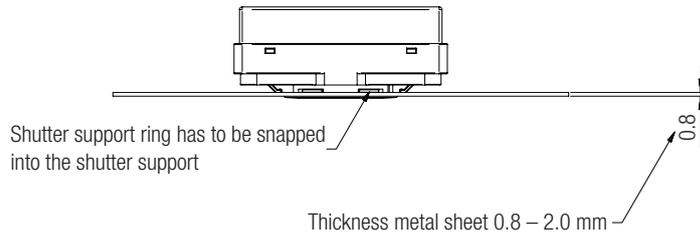
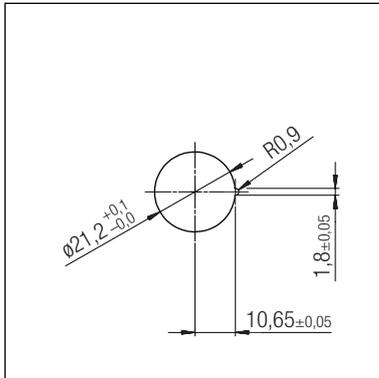
Glow-wire test

according to EN 61347-1 passed.

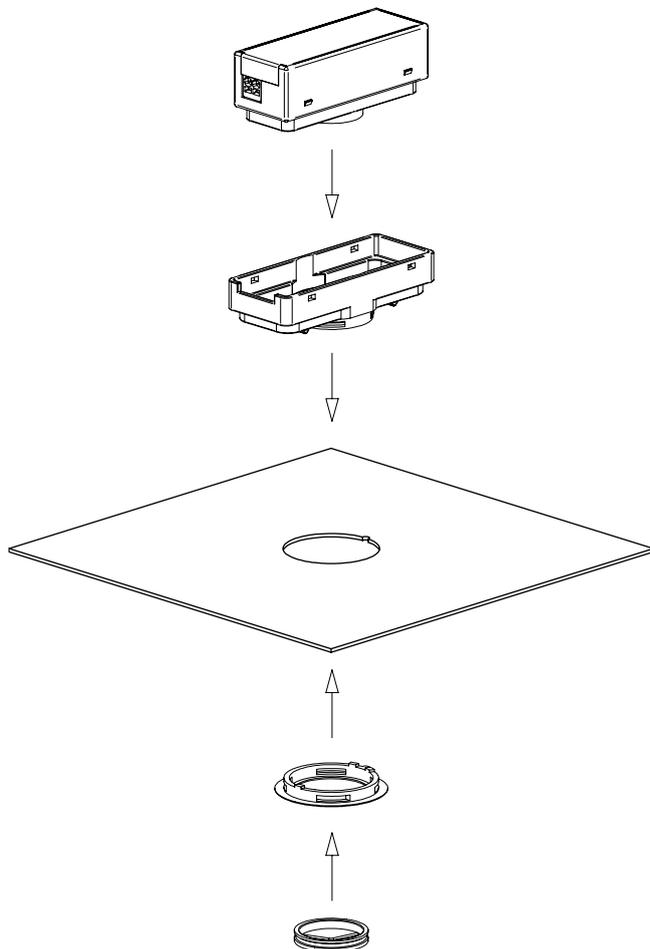
Mounting in luminaire housing with Mounting Kit:

Size of the sheet: 0.8 – 2.0 mm

Dimension drawing for needed mounting opening

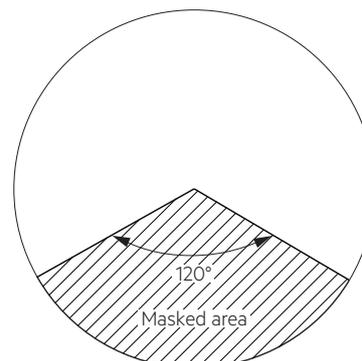
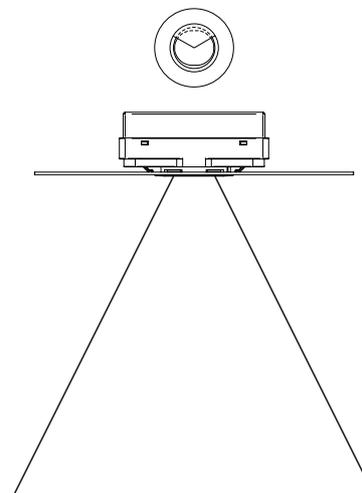


Mounting Kit mounting

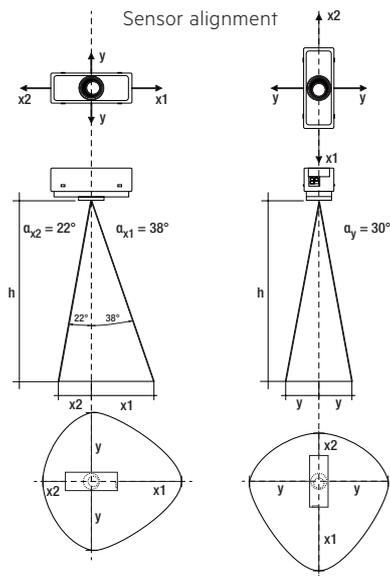


Mounting Kit Shutter

Area which is masked by the shutter.



Light level recognition area



h *	x1	x2	y	d
1.7 m	1.3 m	0.7 m	1.0 m	3.0 m
2.0 m	1.6 m	0.8 m	1.2 m	3.6 m
2.3 m	1.8 m	0.9 m	1.3 m	4.1 m
2.5 m	2.0 m	1.0 m	1.4 m	4.5 m
2.7 m	2.1 m	1.1 m	1.6 m	4.9 m
3.0 m	2.3 m	1.2 m	1.7 m	5.4 m
3.5 m	2.7 m	1.4 m	2.0 m	6.3 m
4.0 m	3.1 m	1.6 m	2.3 m	7.2 m

* The recommended maximum room height for office applications is 3 m and for corridor applications for example 4 m. Up to 2 m mounting height presence is detected and over 2 m motion is detected.

Calculation of the diameter (light area):

$x1 = \tan(\alpha_{x1}) \times h$

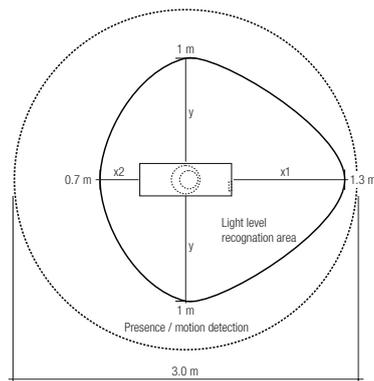
$x2 = \tan(\alpha_{x2}) \times h$

$y = \tan(\alpha_y) \times h$

Calculation of the diameter (motion area):

$d = 2 \times \tan(0.5 \times \alpha) \times h$

Example for light and motion detection area at height of 1.7 m:



Adjustments

Potentiometer times = 5s, 2m, 5m, 15m, 30m, default = 5 s

(Note: Only discrete steps are selectable, no intermediate values)

Potentiometer lux = 50 – 500 lx, default = off

Bright out:

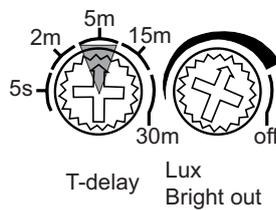
Bright out will be activate if postition off is not selected.

No adjustable parameters:

Switch OFF light level: 250 % of the adjustable switch ON light level

Bright out delay time: 10 min.

Power up behavior: When power up, the smartSWITCH will switch ON



In the example above the 5 minute range is selected.

Presence / motion detection

