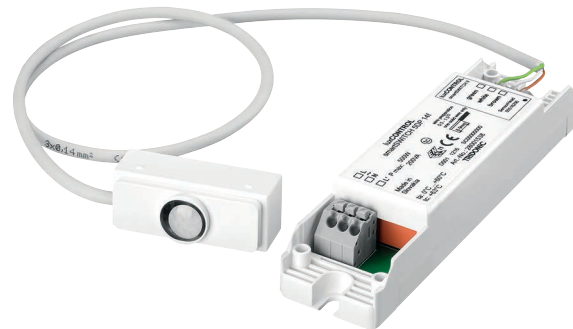
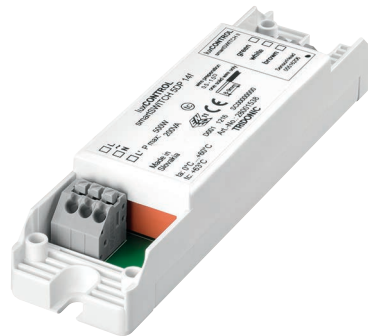


smartSWITCH 5DP 14f

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



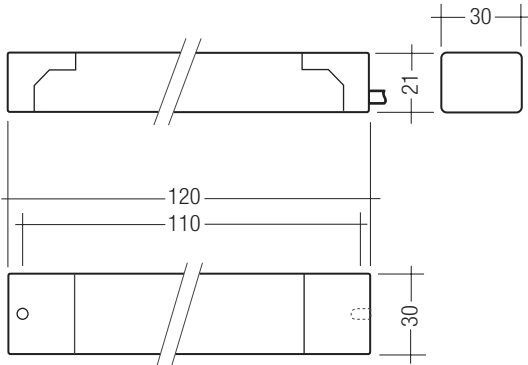
Wiring diagrams and installation examples, page 3



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

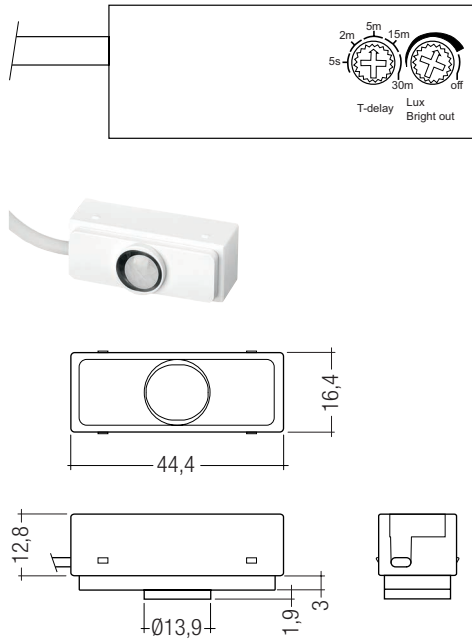
Type	Article number	Packaging carton	Weight per pc.
smartSWITCH 5DP 14f	28001538	10 pc(s).	0.057 kg

Specific technical data

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

^① Due to the inrush current, not more than 2 Driver with a total power of 500 W can be connected to the smartSWITCH controller.

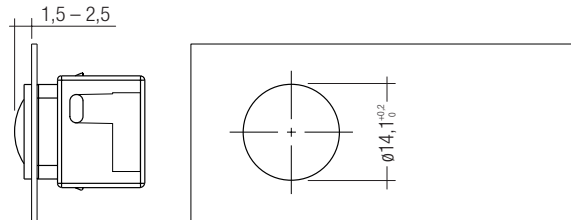
smartSWITCH Sensor
cable entry point on the side



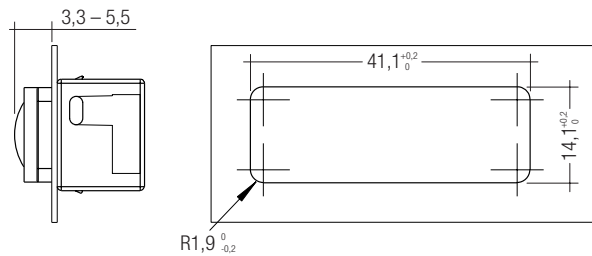
Ultra-compact luminaire mounted sensor for ambient light and detection of movement.

Mounting variants luminaire housing:

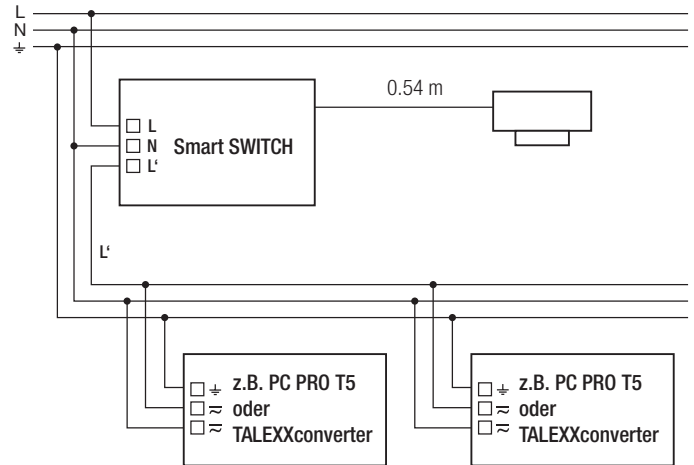
Size of the sheet: 0.8 – 1.8 mm



Size of the sheet: 0.8 – 3.0 mm

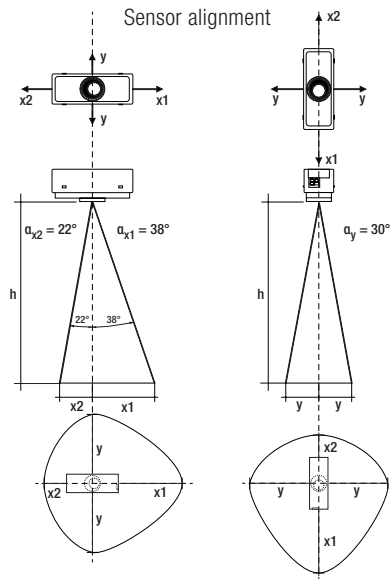


Wiring diagram

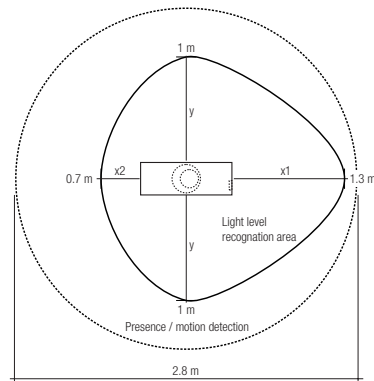


Glow-wire test
according to EN 61347-1 passed.

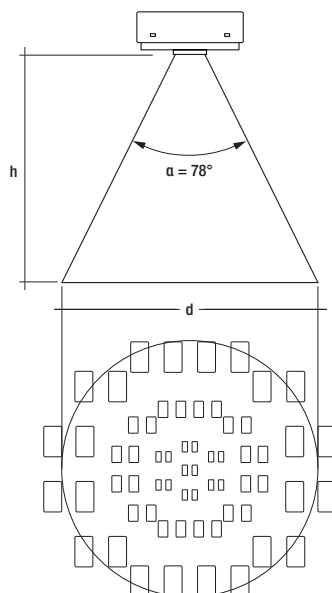
Light level recognition area



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



Presence / motion detection



h *	x1	x2	y	d
1.7 m	1.3 m	0.7 m	1.0 m	2.8 m
2.0 m	1.6 m	0.8 m	1.2 m	3.2 m
2.3 m	1.8 m	0.9 m	1.3 m	3.7 m
2.5 m	2.0 m	1.0 m	1.4 m	4.0 m
2.7 m	2.1 m	1.1 m	1.6 m	4.4 m
3.0 m	2.3 m	1.2 m	1.7 m	4.9 m
3.5 m	2.7 m	1.4 m	2.0 m	5.7 m
4.0 m	3.1 m	1.6 m	2.3 m	6.5 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):

$$d = 2 \times \tan(0,5 \times \alpha) \times h$$

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

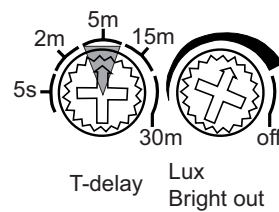
Bright out:
Bright out will be activate if postilion off is not selected.

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.