

RBWF/LF

Room motion and light sensor



Summary

A motion and light sensor detects motions and light intensity as well as the presence of persons and it is used to recognize conditions. Applicable for the control of lighting, heating and ventilation on an as-needed basis.

Applications

- **HVAC and lighting systems - facility automation, in corridors, at workplaces, in industrial halls and in offices and business rooms**

Functions

The sensor is equipped with infrared motion sensor and a light sensor. The motion sensor signal is filtered and brought to the potential-free contact. The light sensor signal is linearized and transformed into a normalized 0..10 V output signal.

The sensors are intended for operating in a normal and chemically non-aggressive environment. They do not need any servicing or maintenance and can be mounted in any position.

The sensors are mounted with 2 or 4 screws on a flush-mounted junction box with 55 mm in diameter or on a plain surface.

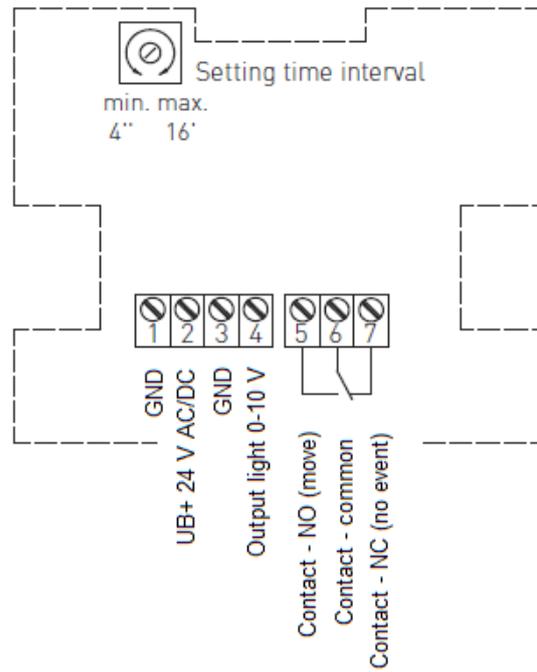
Technical data

Power supply	24 V AC / DC
Power consumption	< 1 VA at 24 V DC
Ambient temperature	0 ...+50 °C
Detection angle	360°, angle of beam 90°/ 110°, reach ca. 10 m, circular
Temperature difference between subject and ambience	min. 5 K
After-running time	adjustable from 4 s to 16 min (internal trimmer)
Measuring range light sensor	0...1000 lx, other ranges on request
Output, light sensor	0...10 V, linearized
Measuring error	< ±10 % of final value temperature drift < ±5 % / 10 K
Terminals	screw terminals for wires 0,14 – 1,5 mm ²
Protection class	III (according to EN 60730)
Protection type	IP30 (according to EN 60 529)

Cover
Standard
Dimensions

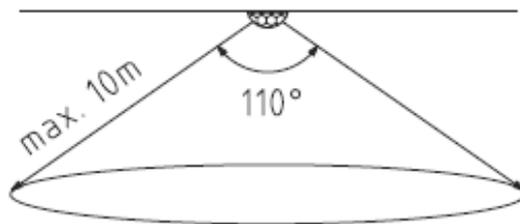
ABS, RAL9010, optional stainless steel
CE
see below

Terminals

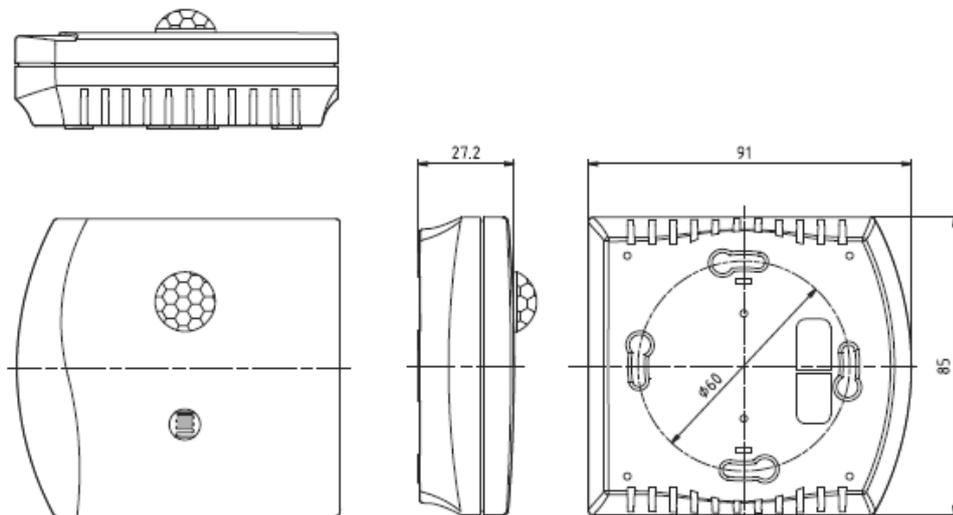


Terminals 1 and 3 are interconnected on the PCB.

Scheme



Dimensions



11/2013 Subject to technical changes.