LTWT10N/ PT1000

Lux transmitter

In- or outdoor lux transmitter with a passive PT1000 temperature sensor as well as DIP switches for scaling the measurement range.

- ✓ Suitable for outdoor use, protection class IP54
- ✓ Passive PT1000 temperature sensor
- ✓ Adjustable scaling from 0...1000 to 0...100000 lux

Application

By using LTWT10N/PT1000 the daylight usage is maximised, thus only the required amount of artificial lighting needs to be added. This makes it possible to achieve significant energy savings. Typical applications are buildings with generous daylight intake, such as schools and modern offices. The transmitter can also be used when controlling blinds, etc.

Function

The transmitter registers illuminance through the window on the lid and is equipped with a DIP switch for four different measuring ranges. It also has a built-in passive PT1000 sensor.

Installation

This product can be installed both indoors and outdoors.

The PT1000 sensor is not compensated for internal warm-up. Therefore the passive temperature output must be calibrated in a controller.

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Technical data

Supply voltage	24 V AC/DC (12…34 V AC/DC)
Power consumption	<2 W
Load impedance	Min. 10 kΩ
Protection class	IP54
Ambient humidity	0…98 % RH (non-condensing)
Ambient temperature	-30…+70 °C
Cable connection	Screw terminals max. 1.5 mm²
Mounting	Wall
Output signal, lux	0...10 V, corresponding to the selected measuring range
Sensor element, lux	MEMS
Measuring range, lux	0...1000 / 0...10000 / 0...50000 / 0...100000 lux
Accuracy, lux	±10 %
Sensor element, temperature	PT1000
Measuring range, temperature	-30…+70 °C
Accuracy, temperature	±0.3 K
Dimensions, external (WxHxD)	69 x 75 x 44 mm
Weight (incl. packaging)	0.17 kg

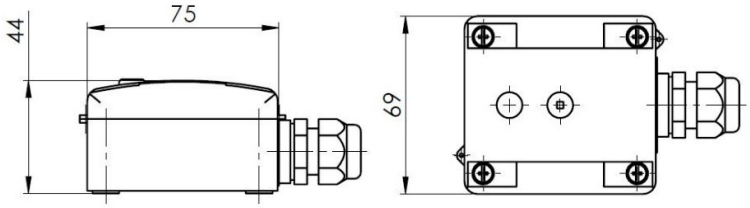
CE

This product carries the CE-mark. More information is available at www.regincontrols.com.

Material

Material, housing	Plastic PA6
Colour, housing	RAL9010

Dimensions



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Wiring

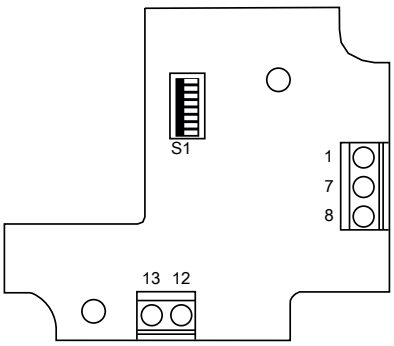

Table 1 Electrical connections

Terminal	Description
1	Output signal, lux
7	Supply voltage (V+)
8	Supply voltage (GND)
12	Temperature (passive PT1000)
13	Temperature (passive PT1000)
S1	DIP switches for adjusting the lux measuring range

Documentation

All documentation can be downloaded from www.regincontrols.com.