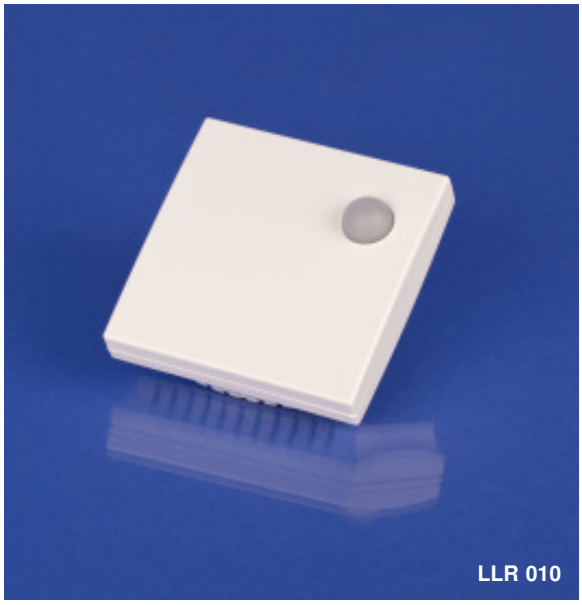


Technical data

Power Supply	24 Vac/dc for LLR 010 24 Vdc for LLR 420
Output	0-10 Vdc for LLR 010 4-20 mA for LLR 420
Sensor	Light sensor with diffuser
Measuring range	0-500 Lux, 1 kLux, 5 kLux or 20 kLux (via DIP switches) Other ranges optional as 0-100 kLux
Power consumption	< 1W at 24 Vdc: < 2VA at 24 Vac
Ambient temp.	0 to +50°C
Electrical connect.	0.14 to 1.5mm2 via terminal screws on circuit board
Accuracy	< +/- 5% of final value
Enclosure	plastic, material ABS colour pure white (similar RAL9010) optional stainless steel enclosure
Dimensions	85 x 85 x 27 mm
Protection class	III (according to EN 60 730)
Protection type	IP30 (according to EN 60 529)
Standards	CE conformity, electromagnetic compatibility according to EN 61326 EMC directive 2014 / 30 / EU

Features

- **4 selectable ranges via DIP switches:**
  - **0-500 Lux**
  - **0-1 kLux**
  - **0-5 kLux**
  - **0-20 kLux**
- **Output**
  - **0-10 Vdc for LLR 010**
  - **4-20 mA for LLR 420**
- **Accuracy < +/- 5% of final value**
- **Active control of artificial lighting**
- **Maximum energy efficiency**
- **Optimise light levels**

Application/Description

The room light level transmitters LLR-series with four switchablemeasuring ranges (four devices in one) measures the luminous intensity and is used to control luminaries, lighting systems, Venetian blinds and canvas blinds, etc., to monitor lighting conditions at workplaces, in storage halls, workshops and corridors, in indoor areas, in industrial halls, in offices as wellas in residential and business facilities, for daylight-dependantconstant light control, as light intensity or twilight sensor and to control sunshade equipment avoiding unnecessary heating-up of rooms.

Therefore it minimizes your variety of types and stockkeeping while covering a greater range of universal applications.

The sensor used in ight level transmitters LLR-series was specifically adapted to the sensitivity of the human eye. Its greatest sensitivity is in the range of 350 nm to 820 nm.

Therefore with its special filter the sensor is predestined for exposure measurement of daylight and/or for measuring artificial light of high colour temperature (similar to sunlight).

Ordering

Type no.	Description
	Room light level transmitter 0 to 500 Lux, 1 kLux, 2 kLux, 5 kLux, 20 kLux or 60 kLux
LLR 010	0-10 Vdc output
LLR 420	4-20 mA output

Measuring ranges (selectable)	DIP 1	DIP 2	DIP 3	DIP 4
0...500 Lux	**ON**	OFF	OFF	OFF
0... 1 kLux	OFF	**ON**	OFF	OFF
0... 5 kLux	OFF	OFF	**ON**	OFF
0... 20 kLux	OFF	OFF	OFF	**ON**

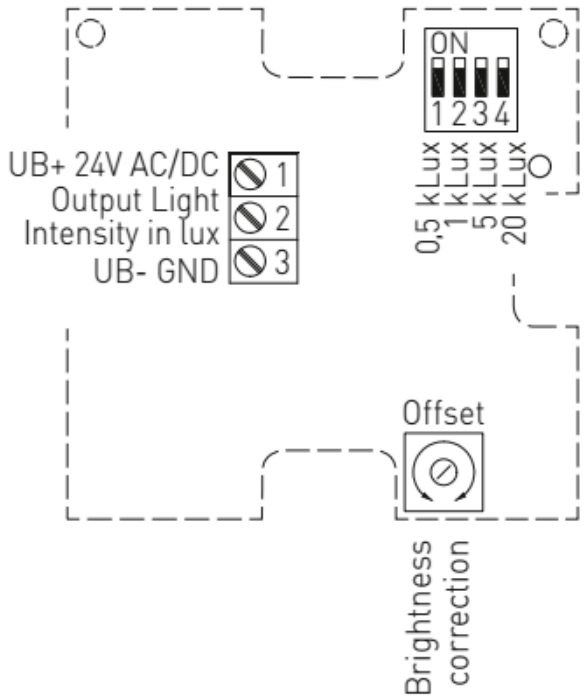
Connection LLR 010

UB+ supply voltage 24V AC/DC
Output light intensity 0-10V (linearised)
UB- GND

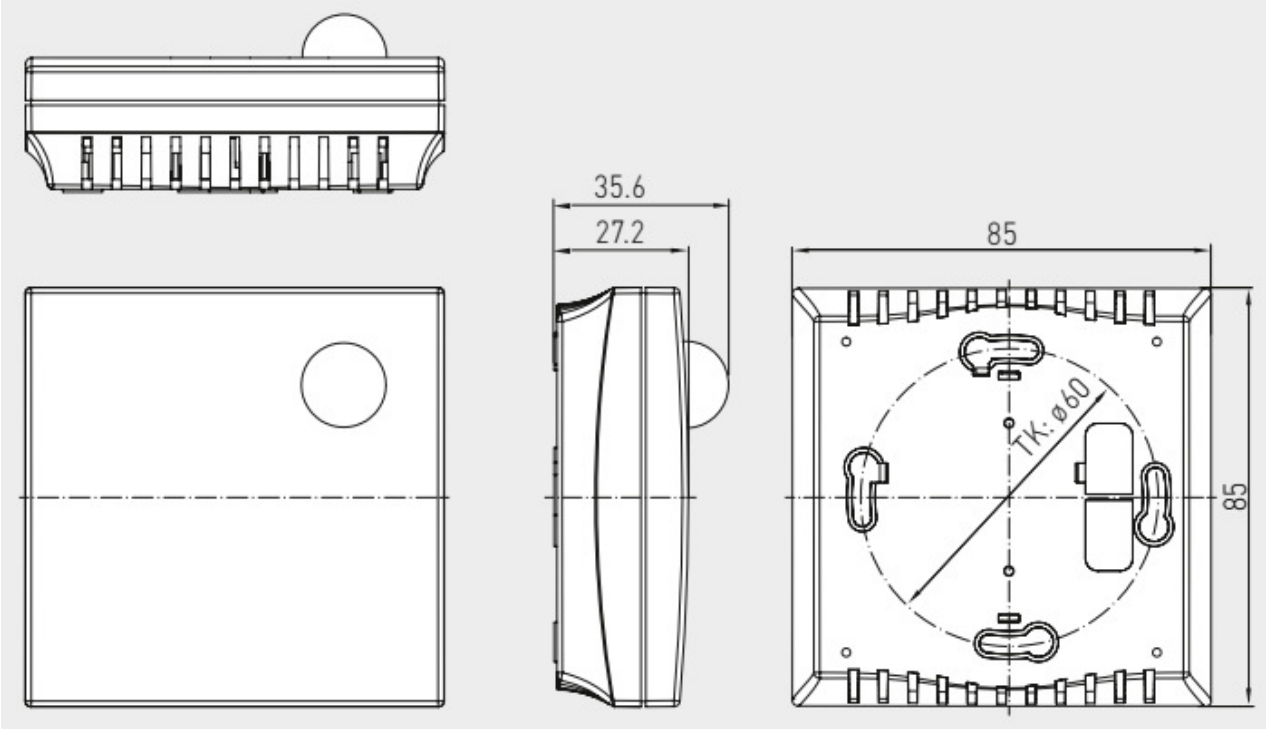
Connection LLR 420

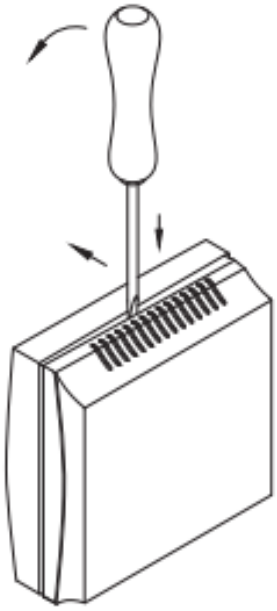
UB+ supply voltage 24V AC/DC
Output light intensity 4...20mA (linearised)

Schematic diagram LLR

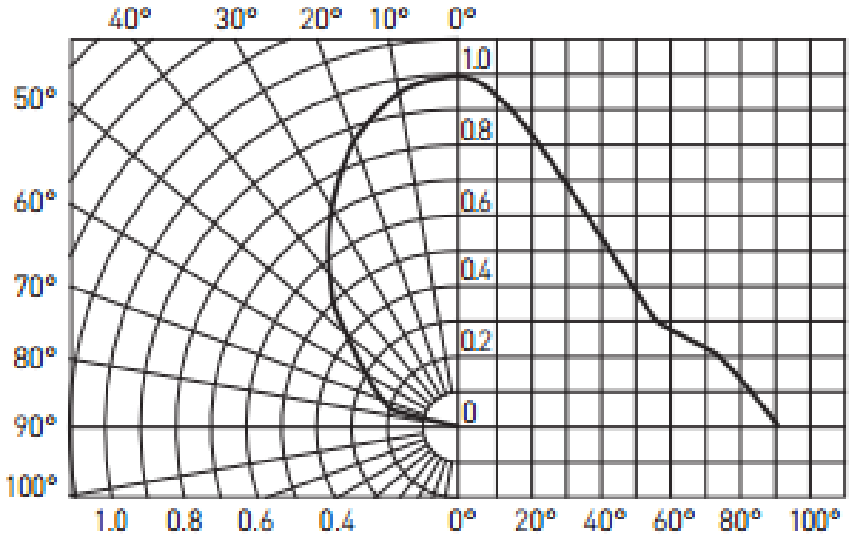


Dimensionnal drawing (mm)

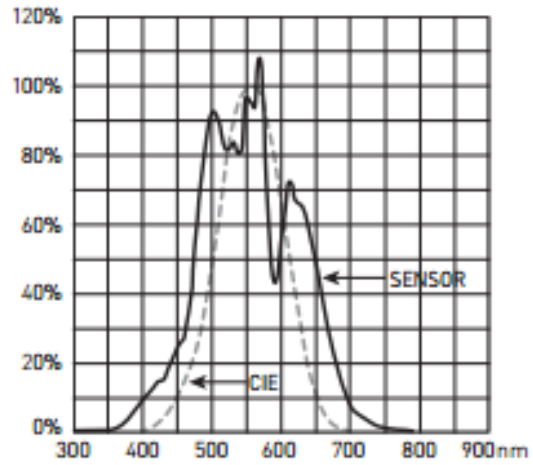




We reserve the right to make changes in our products without any notice which may effect the accuracy of the information contained in this leaflet.



Characteristic curve showing the sensor's sensitivity in function of the angle of incidence of light.



Characteristic curve showing the sensor's sensitivity in respect of the wavelength of light.
The broken line represents the light perception of the human eye

The sensor used in light intensity transmitter LLR was specifically adapted to the sensitivity of the human eye.
Its greatest sensitivity is in the range of 350 nm to 820 nm.
Therefore with its special filter the sensor is predestined for exposure measurement of daylight
and / or for measuring artificial light of high colour temperature (similar to sunlight).