



Features

- 6 selectable ranges via DIP switches:
 - 0 to 500 Lux
 - 0 to 1 kLux
 - 0 to 2 kLux
 - 0 to 5 kLux
 - 0 to 20 kLux
 - 0 to 60 kLux
- Output
 - 0-10 Vdc for LLO 010
 - 4-20 mA for LLO 420
- Accuracy < +/- 5% of final value
- Active control of artificial lighting
- Maximum energy efficiency

Technical data

Power Supply	24 Vac/dc for LLO 010 24 Vdc for LLO 420
Output	0-10 Vdc for LLO 010 4-20 mA for LLO 420
Sensor	Light sensor with diffuser
Measuring range	0-500 Lux, 1 kLux, 2 kLux, 5 kLux, 20 kLux or 60 kLux (via DIP switches) Other ranges optional as 0-100 kLux
Power consumption	< 1W at 24 Vdc: < 2VA at 24 Vac
Ambient temp.	-30 to +70°C
Electrical connect.	0.14 to 1.5mm ² 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	72 x 64 x 43 mm
Protection class	III (according to EN 60 730)
Protection type	IP65 (according to EN 60 529)
Standards	CE conformity, electromagnetic compatibility according to EN 61326 EMC directive 2014 / 30 / EU

Application/Description

The outdoor light level transmitters LLO-series with four switchable measuring 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 well as in residential and business facilities, for daylight-dependant constant 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 light level transmitters LLO-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
LLO 010	Outdoor light level transmitter 0 to 500 Lux, 1 kLux, 2 kLux, 5 kLux, 20 kLux or 60 kLux 0-10 Vdc output
LLO 420	4-20 mA output

Measuring ranges (selectable)	DIP 1	DIP 2	DIP 3	DIP 4
0...500 Lux	OFF	OFF	OFF	-
0... 1 kLux	ON	OFF	OFF	-
0... 2 kLux	OFF	ON	OFF	-
0... 5 kLux	ON	ON	OFF	-
0... 20 kLux	OFF	OFF	ON	-
0... 60 kLux	ON	OFF	ON	-

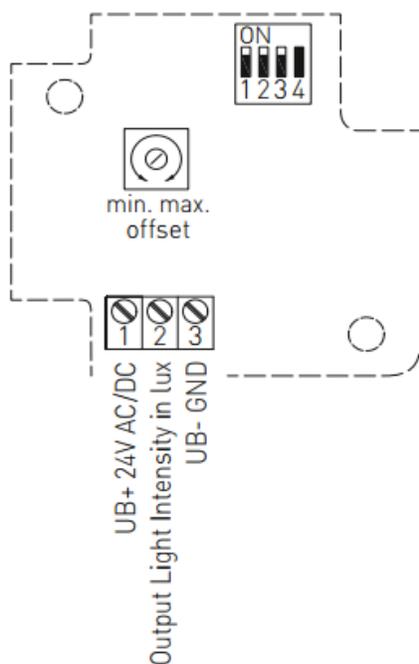
Connection LLO 010

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

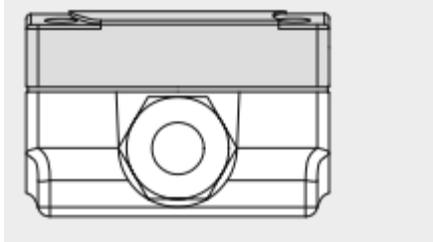
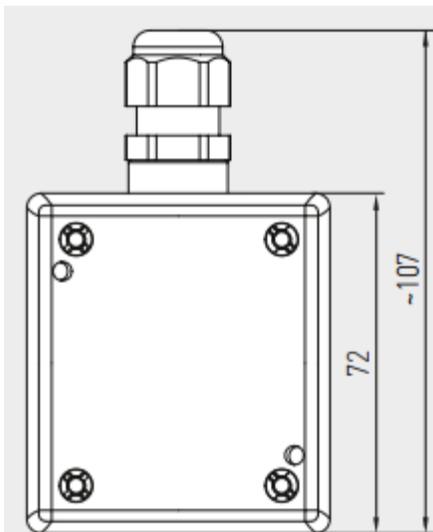
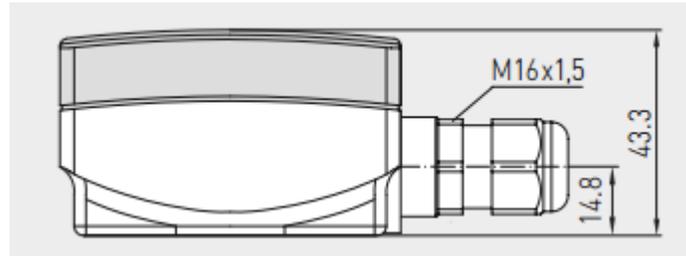
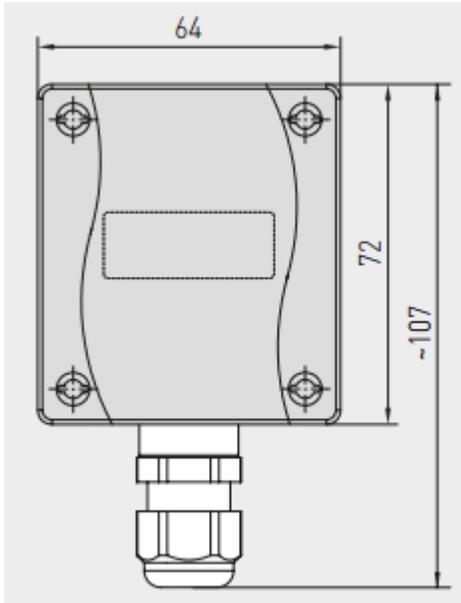
Connection LLO 420

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

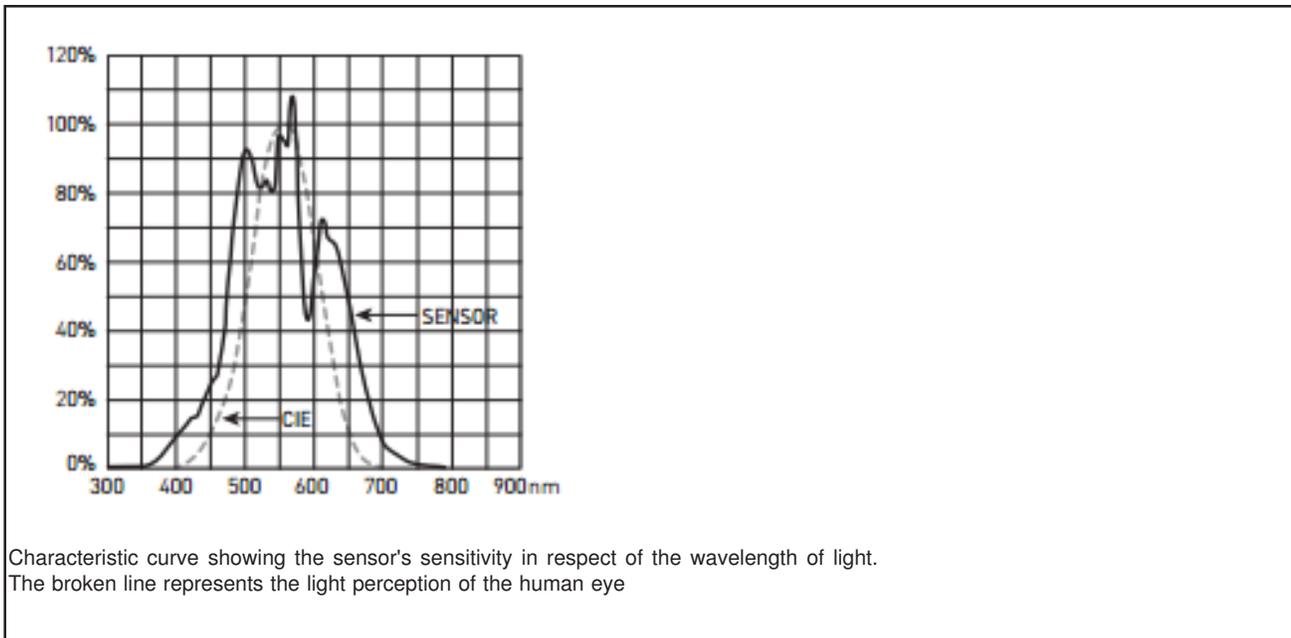
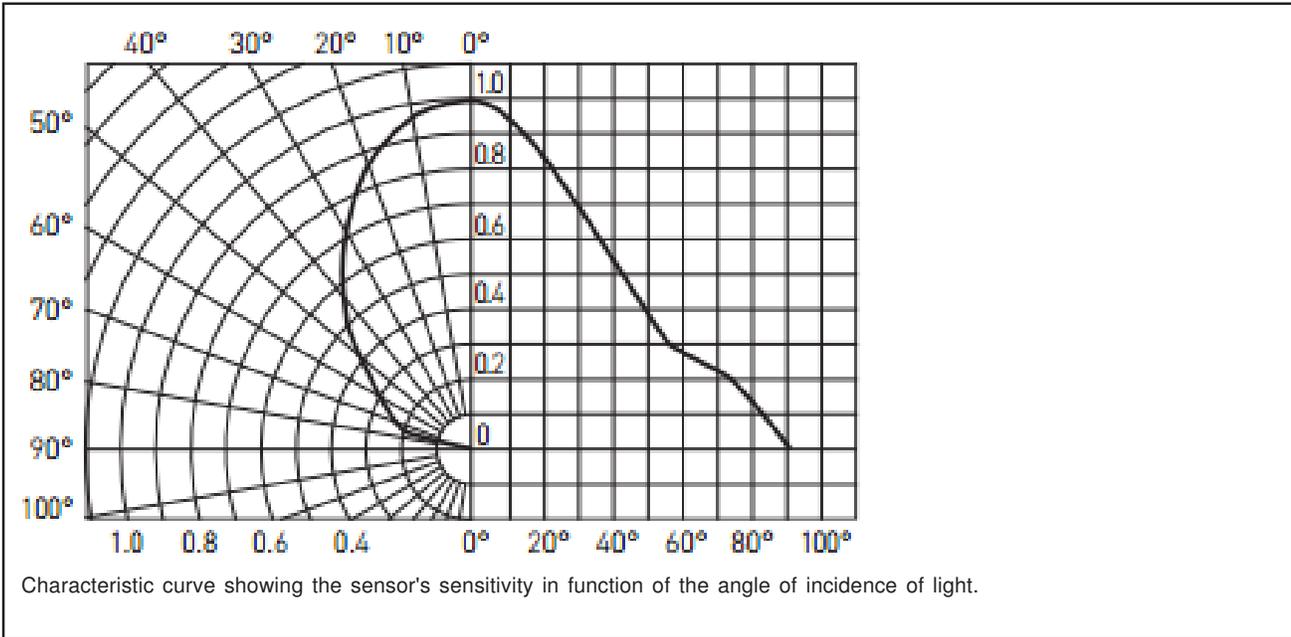
Schematic diagram LLO



Dimensional 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.



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).