LIGHT INTENSITY (LUX) TRANSMITTERS

⚙ Key Points:

- Range from 0 to 10000 lux
- 0-10 V active output, power supply 24 Vac/Vdc (3-4 wires) or 4-20 mA output, passive loop, power supply from 16 to 30 Vdc (2 wires)
- ABS V0 IP65 housing, with or without display
- "¼ turn" system mounting with wall-mount plate
- Housing with simplified mounting system

⚙ Features:

- Material   : ABS V0 as per UL94
- Protection   : IP65
- Display   : LCD 10 digits. Size : 50 x 17 mm (Optional)
- Height of digits   : Values : 10 mm ; Units : 5 mm
- Cable gland   : For cables Ø 8 mm maximum
- Weight   : 140 g
- Remote probe   : cable of 2 m length in PVC

⚙ Technical Features:

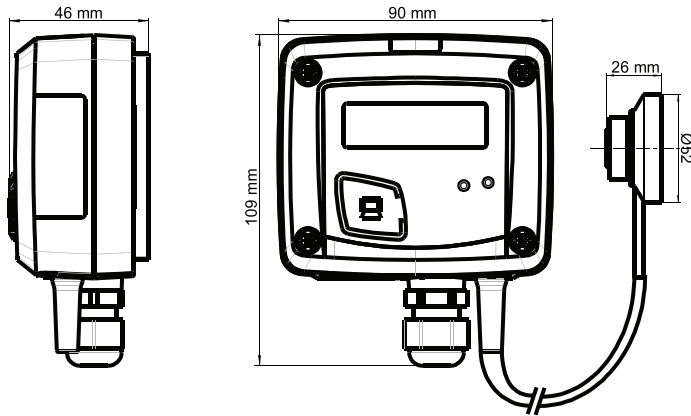- Units of measurement   : Lux / Fc
- Measuring ranges   : From 0 to 10000 lux
                            From 0 to 929 fc
- Accuracy*   : 3% of reading
- Resolution   : 1 lux
                            0.1 fc
- Operating temperature   : From 0 to +50°C
- Storage temperature   : From -10 to +70°C
- Spectral response   : As per standard photopic curve V (λ) NF C 42-710 class C
- Error limit V(λ) (f1)   : <10 %
- True cosine evaluation (f2) : <6 %
- Linearity (f3)   : <3 %

⚙ Technical Specification:

Output / Power supply	:	active 0-10 V (power supply 24 Vac/Vdc ± 10%), 3-4 wires
		passive loop 4-20 mA (power supply 16/30 Vdc), 2 wires
		maximal load : 500 Ohms (4-20 mA)
Consumption	:	2 VA (0-10 V) or max. 22 mA (4-20 mA)
Electromagnetical compatibility	:	EN61326
Electrical connection	:	Screw terminal block for cables Ø0.05 to 2.5 mm²
PC communication	:	USB-mini Din cable
Environment	:	Air and neutral gases

LIGHT INTENSITY (LUX) TRANSMITTERS
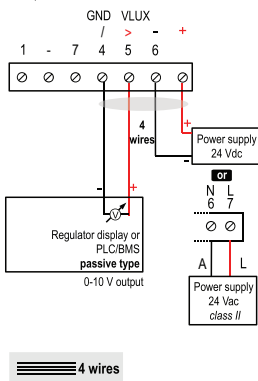
⚙ Dimensions
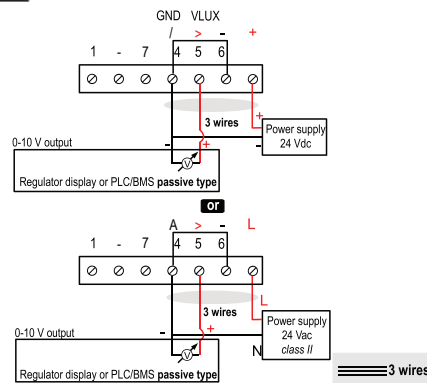
46 mm

90 mm

26 mm

Ø52

109 mm

⚙ Connections

⚠ This connection must be made by a qualified technician. To make the connection, the transmitter must not be energized.
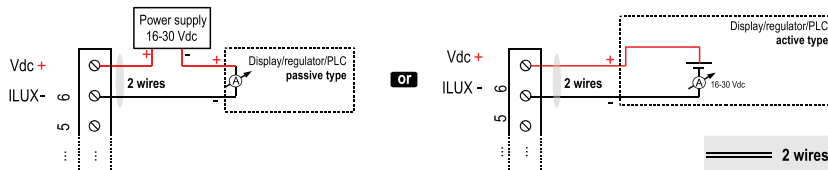
For **LR110-A** models with **0-10 V** output – **active** :

GND VLUX
/ > - +
1 - 7 4 5 6

4 wires

Power supply 24 Vdc

or

N L
6 7

A L

Power supply 24 Vac *class II*

Regulator display or PLC/BMS **passive type**

0-10 V output

4 wires

⚠ To make a 3-wire connection, before powering up the transmitter, please connect the output ground to the input ground. See drawing below.

GND VLUX
/ > - +
1 - 7 4 5 6

3 wires

Power supply 24 Vdc

0-10 V output

Regulator display or PLC/BMS **passive type**

or

A > - L
1 - 7 4 5 6

3 wires

Power supply 24 Vac *class II*

0-10 V output

N

Regulator display or PLC/BMS **passive type**

3 wires

For **L110-P** models with 4-20 mA output – **passive** :

Power supply 16-30 Vdc

Vdc +
ILUX- 6
5

2 wires

Display/regulator/PLC **passive type**

or

Vdc +
ILUX- 6
5

2 wires

Display/regulator/PLC **active type**

16-30 Vdc

2 wires

⚙ Mounting

To mount the transmitter, mount the ABS plate on the wall (drilling : Ø6 mm,screws and pins are supplied).
Insert the transmitter on the fixing plate
(see A on the drawing beside). Rotate the housing in clockwise direction until you hear a "click" which confirms that the transmitter is correctly installed.

75 mm
37.5 mm
40 mm
23.75 mm
Ø 8 mm
Ø 14 mm
Ø 4.5 mm
50 mm
68 mm
7.5 mm