t.a.c®

SLR310

D-60-52

**Indoor light transmitter
0–10 V**

10 Aug 2004

SLR310 is an electronic light transmitter that converts a lux measurement into an electric signal 0–10 V.

It has two sensitivity ranges to suit different light levels: 0–400 lx (e.g. for controlling outdoor lighting) and 0–20 klx (for controlling sunshade systems).

The transmitter is delivered as a complete unit, comprising the sensing element, an amplifier mounted in a housing.

The transmitter is intended for wall mounting indoors.

The sensitivity peak is for light at an angle of incidence of 0° to the perpendicular. The sensor has the same spectrum sensitivity peak as the human eye.

The transmitter is delivered as a complete unit, comprising a junction box with amplifier and sensor.

The transmitter shall be connected with a 3-wire cable.
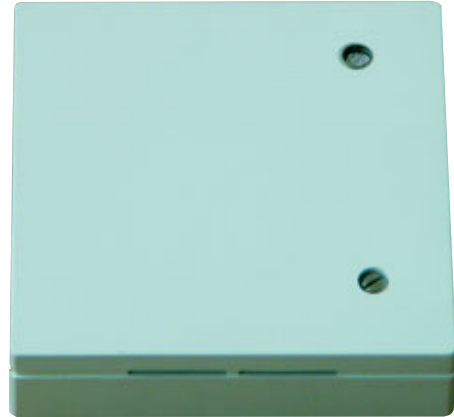
TECHNICAL SPECIFICATION

Part number 0-069-2060-0
Range .... Jumper : 0–400 lx
Jumper: 0–20 klx
Signal output .... 0–10 V
Materials:
  Housing .... plastic ABS/polycarbonate
Enclosure rating .... IP 30
Dimensions (in mm) .... according to figure
Weight .... 50 g, weight, incl standard packing, in brackets
Power .... 24 Vac +/- 10%, 15–36 VDC
Accuracy .... ±5%
at ambient temp of 25°C and U_G= 24 V DC
Wave length at max. sensitivity .... 600 nm (standard
light A/2854K color temp.)
Temperature dependence .... ±0,05%/°C
at ambient temp. of 25 °C and U_G = 24 V
Load resistance: .... > 50 kohm
Current consumption, typical:
  Range 0 -400 lx .... 8 mA
  Range 0 - 20 klx .... 13 mA
Ambient temperature .... min. -20 °C (-4 °F)
max. +70 °C (158 °F)
Standards:
  EMC .... EN 50081-1, EN 50082-1

Dimensions in mm (inches)

75 (2.95")
60 (2.36")
75 (2.95")
25 (0.98)
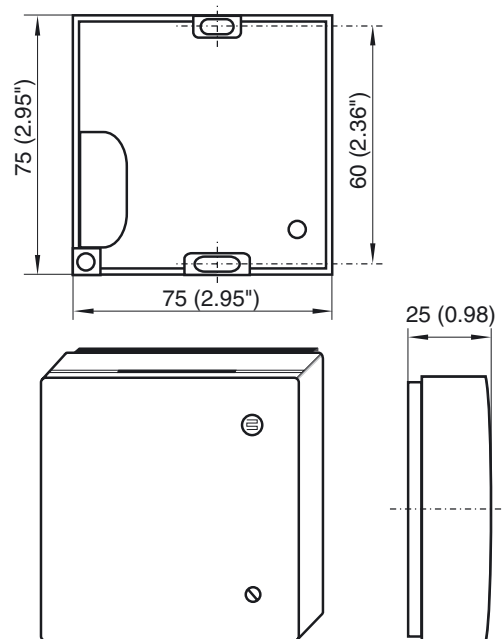
WIRING

Cable: 0.2-1.5 mm².

Note! Avoid contact with the sensor terminals if the connection wires are live.

0...10V   SLR 310

Sensor

G	GO	Y
1	2	3

G
UG
GO
Y
0...10V

Jumper

400lx   20klx

UG=15…36 VDC / 24 VAC
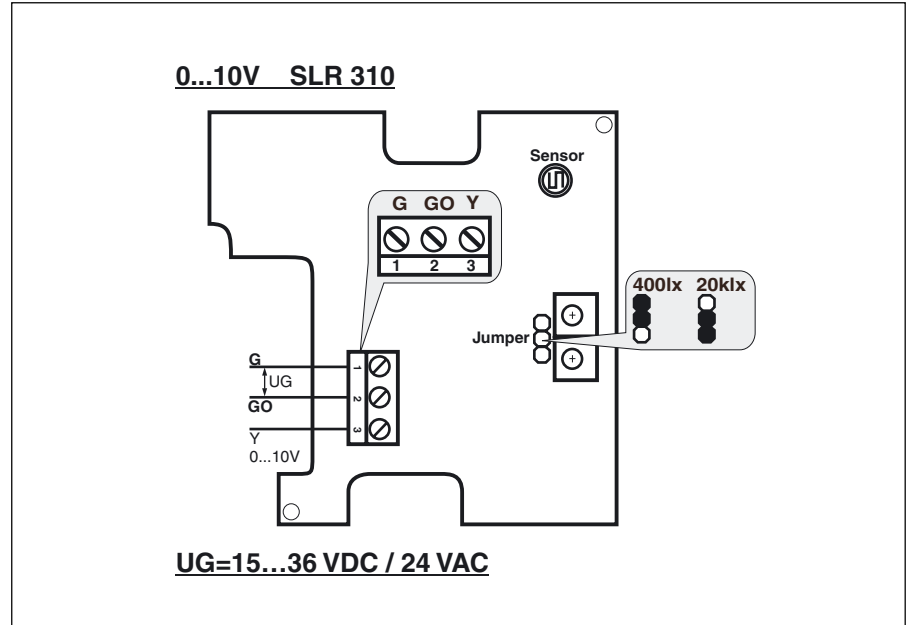
ADJUSTMENT

The unit is supplied ready calibrated with a specified range and precision.

No further calibration is normally required.

www.tac.com