

BRIGHTNESS SENSOR 0 - 10 V

Product No: 200032

FEATURES

- Standard signal 0-10V, can be powered by AC/DC
- Wide measuring range of 0-100000 lx
- 3-point Calibrated and linearized
- Long-term stability
- Light sensor and in one compact housing combines quality housing IP 65

APPLICATIONS

- Building automation, dark / light switching operations
- Sun sensor
- Light sensor protected from rain weather stations
- Brightness sensor for use in strong sunlight

APPLICATION

In building automation, light sensors are required, which are suitable for continuous use and are protected against overvoltage and transients.

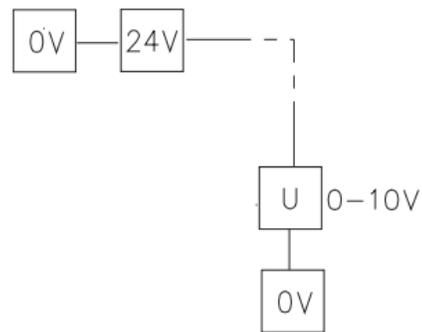
Additional aspects are the choice of DC or AC supply voltage and the output of the measured value as a 0 ... 10 V standard signal. A variety of applications arising from the determination of the brightness for the dynamic control of devices in the home and building automation, such as its use as a sun sensor.

Measurement of illuminance is a precise and long-term stable photodiode with industrial performance. The processing of the measured signal is done using modern sensor technology. The high sensitivity over a wide range of illuminance and the wiring to make the brightness sensor even under very bright conditions used.

Through the three-point calibration results over a wide brightness range, good accuracy for typical control tasks.

CONNECTION

For the preferred connection shielded cable should be used. This should be considered especially in EMI noise environment. The shielding must be grounded. Before you connect, whether the supply voltage matches the voltage specified in the data operation.



TECHNICAL DATA

Power Supply	24VAC / DC
Sensor	Photodiode
Measuring Range	0-100 KLux
linearity error	<5%
Output	0-10V
Ambient temperature	-30 ° C to +70 ° C
Housing	Plastic
Dimensions	70 x 62 x 37 mm
Electrical connection:	0.14-1.5mm ² with quick release clamp
Mounting	Surface
Cable gland	M16 with strain relief
Protection class	III (according to EN60730)
IP65	(according to IEC529)

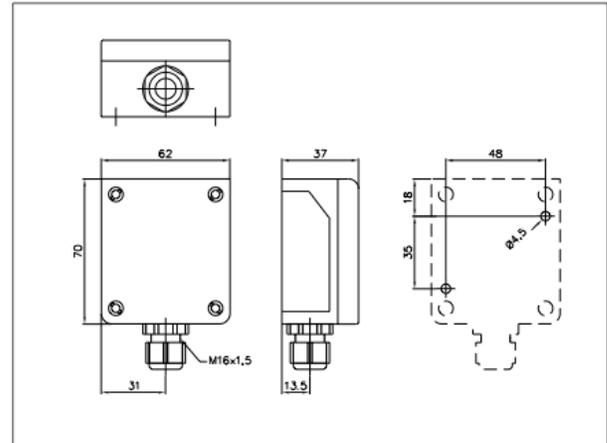
Change of specifications subject-

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ASSEMBLY OF BRIGHTNESS SENSOR

The mounted light sensor can be mounted on combined transmitter directly to a surface. Refer to the diagram opposite the locations for drilling the holes for the mounting screws. On rain-protected attachment to look for.



Setting Measurement Ranges

Dip Switches:



Filter Time - DIP Switch 1,2:

The filter time slows down the output, for example when a reflection from a car hits the sensor. The filter time has no influence on the brightness.

00	No Filter
01	10 Sec.
10	60 Sec.

Hysteresis - DIP Switch 3,4:

Has no influence as is not equipped on this sensor model.

00	0%
01	15%
10	30%
11	45%

Switching Threshold - DIP Switch 5,6,7:

Has no influence as is not equipped on this sensor model.

000	5%
001	18%
010	31%
011	44%
100	57%
101	70%
110	83%
111	95%

Measuring Range - DIP Switch 8,9,10:

Allows the brightness range of the sensor to be altered.

000	100 Lux
001	500 Lux
010	1000 Lux
011	5000 Lux
100	20.000 Lux
101	60.000 Lux
110	100.000 Lux