DATA SHEET

Brightness-Sensor with Transmitter 0...10V 0...100000 Lux

Description

Features

- Standard signal 0...10 V with AC / DC supply
- Customized measuring range up to 0...100000 Lux
- 3-point calibrated and linearized
- High long term stability
- Sensor and transmitter combined in one housing
- High-quality plastic housing (IP65)

Applications

- Building automation, dark/light switching processes
- Sun sensors
- Brightness sensor for rain-protected weather stations
- Brightness sensor for switching consumers in applications with solar panels
- Brightness sensor for use at high sunlight

Technical Datas	
Measuring range	0...100000 Lux
Sensor	Photodiode
Maximum spectral sensitivity	600 nm
Output scale	0...100000 FS
CE-conformity	89 / 336 / EWG
Accuracy	± 30 %
Operating temperature	-20...+75 °C
EMV-Noise emission	EN 61000-6-3:2001
EMV-Noise withstanding	EN 61000-6-2:2001
Power supply	12...24 V AC/DC
Output supply	0...10 V DC
Over voltage protection	Varistor and RC filter
Dimensions (B x H x T) without the coupling of the brightness-sensor	59 x 65 x 38
Article	**Art.-No.**
Brightness-Sensor with Transmitter 0...10V	0555 3001

The brightness sensor is a light sensor for the building automation. It is protected against overvoltage and transients and is suitable for a continuous use.
For the measurement of luminous intensity a precise and long-term stable photodiode with industrial performance is used. The processing of the measured signal is done through advanced sensor technology with an ASIC. The light sensor can also be used under very bright lighting conditions due the high sensitivity over a wide range of light intensities.
The three-point calibration results in a high precision over a wide range of brightness for precise control tasks.
Further advantages are the possibility to adjust the brightness sensor between DC or AC supply voltage and the linearized 0...10 V output signal.
A variety of possible applications results from the determination of the brightness for the dynamic control of devices in the home and building automation, for example as a sun sensor.

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DATA SHEET

Brightness-Sensor 0...1000 Lux with Transmitter 0...10 V

B+B SENSORS

Description

Features

- Standard signal 0...10 V with DC supply
- Customized measuring range up to 0...1000 Lux
- 3-point calibrated and linearized
- High long term stability
- Sensor and transmitter combined in one housing
- High-quality plastic housing (IP54)

Applications

- Building automation, dark/light switching processes
- Sun sensors
- Brightness sensor for rain-protected weather stations
- Brightness sensor for switching consumers in applications with solar panels
- Brightness sensor for use at high sunlight

Technical Datas	
Measuring range	0...1000 Lux
Sensor	Photodiode
Maximum spectral sensitivity	600 nm
Output scale	0...1000 FS
CE-conformity	2004/108/EG
Accuracy	±30 %
Operating temperature	-20...+75 °C
EMV-Noise emission	EN 61000-6-3:2001
EMV-Noise withstanding	EN 61000-6-2:2001
Power supply	12...24 V/DC
Output supply	0...10V DC
Over voltage protection	Varistor and RC-filter
Dimensions (B x H x T) without the coupling of the brightness-sensor	59 x 65 x 38
Article	**Art.-No.**
Brightness-Sensor with Transmitter 0...10V	0555 3002

The brightness sensor is a light sensor for the building automation. It is protected against overvoltage and transients and is suitable for a continuous use.
For the measurement of luminous intensity a precise and long-term stable photodiode with industrial performance is used. The processing of the measured signal is done through advanced sensor technology with an ASIC.

The three-point calibration results in a high precision over a wide range of brightness for precise control tasks.
A variety of possible applications results from the determination of the brightness for the dynamic control of devices in the home and building automation, for example as a sun sensor.

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