

WSE12-3V1111S01







# Photoelectric sensors W12-3, Through-beam photoelectric sensor

**Model Name** > WSE12-3V1111S01

Part No. > 1058190



## At a glance

- · Through-beam variant
- Rugged die-cast zinc housing optional Teflon® coating
- · PinPoint LED technology with highly visible light spot
- · Chemically, thermally and mechanically resistant metal housing
- · Dovetail mounting mounting holes and oblong holes
- · Highly visible status LEDs
- · Operating range up to 20 m

#### Your benefits

- · Outstanding sensor performance in small housings
- · Reliable object detection of difficult targets using best-in-class technology
- A wide range of different sensor housings and connection systems ensures optimal integration of sensors in the system
- Many options for protective housings super tough VISTAL™, metal or highly resistant plastic, ensures that the sensor can be installed without damage
- Wide range of accessories ensures easy installation, quick commissioning and maximum sensor performance for varying application needs



Illustration may differ









#### **Features**

Sensor/detection principle: Through-beam photoelectric sensor Dimensions (W x H x D): 15.6 mm x 48.5 mm x 42 mm

Housing design (light emission): Rectangular Sensing range max.: 0 m ... 20 m Sensing range: 0 m ... 15 m Type of light: Infrared light LED 1) Light source: 850 nm Wave length: Angle of dispersion: Ca. 1.5 °

Adjustment: Potentiometer, 5-turn

1) Average service life of 100,000 h at T  $_{A}$  = +25 °C

### Mechanics/electronics

10 V DC ... 30 V DC <sup>1)</sup>
≤ 5 Vpp <sup>2)</sup> Supply voltage:

Ripple: ≤ 30 mA <sup>3)</sup> Power consumption, sender:

≤ 15 mA <sup>4)</sup> Power consumption, receiver: PNP Output type:

Output function: Complementary Switching mode: Dark-switching Signal voltage PNP HIGH/LOW: > Uv - 2,5 V/ca. 0 V

Output current Imax.: 100 mA ≤ 330 µs <sup>5)</sup> Response time: 1,500 Hz <sup>6)</sup> Switching frequency:

Cable, 4-wire, 2 m<sup>7)</sup> Connection type:

PVC Cable material: 0.25 mm<sup>2</sup> Conductor cross-section: A, C, D 8) 9) 10) Circuit protection:::

Protection class: Weight: 200 g Special device: Housing material: Metal

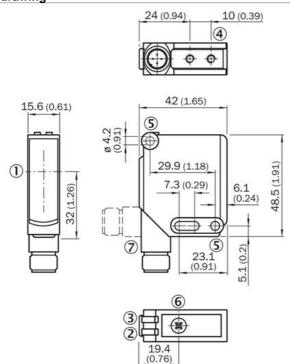
**IP 66** Enclosure rating: **IP 67** IP 69K

Special features: Alarm output Test input sender off: TE to 0 V -40 °C ... 60 °C Ambient operating temperature: Ambient storage temperature: -40 °C ... 75 °C

Receiver, WE12-3V1111S01, 2064081Receiver, WE12-3V1111S01, 2064081, Sender, WS12-3D1110, 2046739Sender, WS12-3D1110, 2046739 Part number of individual components:

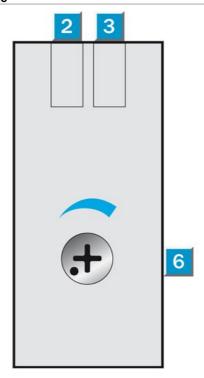
1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V tolerances 3) 4) Without load 5) Signal transit time with resistive load  $^{6)}$  With light/dark ratio 1:1  $^{7)}$  Do not bend below 0  $^{\circ}$ C  $^{8)}$  A =  $^{7}$  Connections reverse-polarity protected  $^{9)}$ C = interference suppression  $^{10)}$ D = outputs overcurrent and short-circuit protected

## **Dimensional drawing**



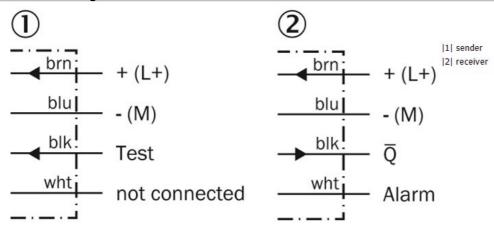
- |1| Optical axis
- |2| LED indicator yellow: Light received
- |3| Green LED indicator: supply voltage active
- |4| M4 threaded mounting hole, 4 mm deep
- |5| Mounting hole, Ø 4.2 mm
- |6| Sensitivity adjustment: poti
- |7| Connection

## Adjustments possible

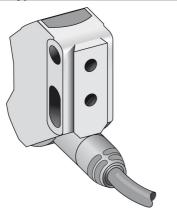


- |2| LED indicator yellow: Light received
- |3| Green LED indicator: supply voltage active
- |6| Sensitivity adjustment: poti

## **Connection diagram**



## Connection type



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