

WSE12-3P1111







Photoelectric sensors W12-3, Through-beam photoelectric sensor

Model Name > WSE12-3P1111 Part No. > 1041464



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 turns

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

Mechanics/electronics

10 V DC ... 30 V DC ¹⁾
≤ 5 Vpp ²⁾ Supply voltage:

Ripple: ≤ 30 mA ³⁾ Power consumption, sender:

≤ 15 mA ⁴⁾ Power consumption, receiver: Output type: PNP

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

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

Cable, 4-wire, 2 m⁷⁾ Connection type:

PVC Cable material: 0.25 mm² Conductor cross-section: A, C, D 8) 9) 10) Circuit protection:::

Protection class: Weight: 200 g Housing material: Metal Enclosure rating: **IP 66 IP 67** IP 69K

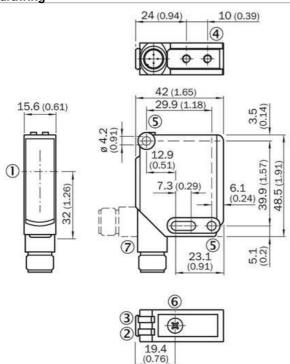
Test input sender off: TE to 0 V Ambient operating temperature: -40 °C ... 60 °C Ambient storage temperature: -40 °C ... 75 °C

Receiver, WE12-3P1111, 2046737Receiver, WE12-3P1111, 2046737, Sender, WS12-3D1110, 2046739Sender, WS12-3D1110, 2046739 Part number of individual components:

NRKH.E181493 & NRKH7.E181493 UL File No.:

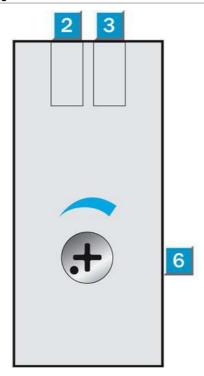
¹⁾ Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V tolerances 3) 4) Without load 5) Signal transit time with resistive load $^{6)}$ With light/dark ratio 1:1 $^{7)}$ Do not bend below 0 $^{\circ}$ C $^{8)}$ A = 7 Connections reverse-polarity protected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

Dimensional drawing



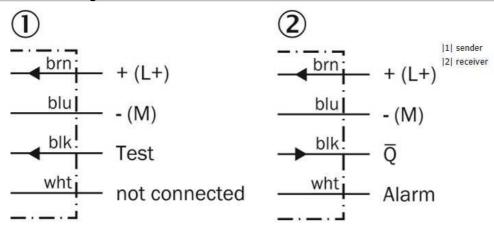
- |1| Optical axis
- |2| LED indicator yellow: Light received
- |3| Green LED indicator: supply voltage active
- |4| M4 threaded mounting hole, 4 mm deep
- |5| Mounting hole, Ø 4.2 mm
- |6| Sensitivity adjustment: poti
- |7| Connection

Adjustments possible

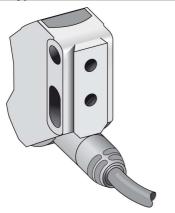


- |2| LED indicator yellow: Light received
- |3| Green LED indicator: supply voltage active
- |6| Sensitivity adjustment: poti

Connection diagram



Connection type



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