

WSE12-3N2411S37







Photoelectric sensors W12-3, Through-beam photoelectric sensor

Model Name > WSE12-3N2411S37

Part No. > 1045357



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 ... 5 m Sensing range: 0 m ... 4 m Type of light: Infrared light LED 1) Light source: 850 nm Wave length: Angle of dispersion: Ca. 4°

Adjustment: Potentiometer, 5-turn Light spot size (distance): Ø 750 mm (5 m)

Mechanics/electronics

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

Ripple:

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

 \leq 30 mA $^{3)}$ Power consumption, sender: ≤ 25 mA Power consumption, receiver: NPN Output type:

Output function: Complementary Light/dark-switching Switching mode: Signal voltage NPN HIGH/LOW: Approx. VS/< 2.5 V

100 mA Output current Imax.: ≤ 5,000 µs ⁵⁾ Response time: 100 Hz ⁶⁾ Switching frequency:

Connector M12, 4-pin A, C, D 7) 8) 9) Connection type:

Circuit protection:::

Ш Protection class: Weight: 120 g Special device: Housing material: Metal Enclosure rating: **IP 66** iP 67 IP 69K

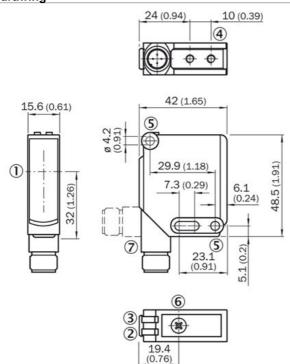
Test input sender off: Sender off, TE to 0 V Ambient operating temperature: -40 °C ... 60 °C Ambient storage temperature: -40 °C ... 75 °C

Receiver, WE12-3N2411S37, 2056043Receiver, WE12-3N2411S37, 2056043, Sender, WS12-3D2410S36, 2046741Sender, WS12-3D2410S36, 2046741 Part number of individual components:

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

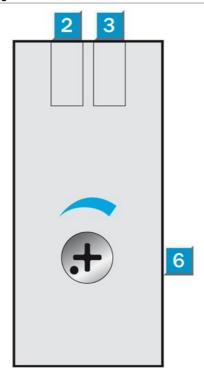
1) Limit values, operation in short-circuit protected network max. 8 A $\stackrel{2)}{}$ May not exceed or fall short of $\stackrel{V}{S}$ tolerances $\stackrel{3)}{}$ Without load $\stackrel{5)}{}$ Signal transit time with resistive load $\stackrel{6)}{}$ With light/dark ratio 1:1 $\stackrel{7)}{}$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

Dimensional drawing



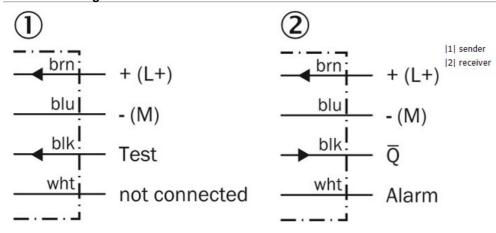
- |1| Optical axis
- |2| LED indicator yellow: Light received
- |3| Green LED indicator: supply voltage active
- |4| M4 threaded mounting hole, 4 mm deep
- |5| Mounting hole, Ø 4.2 mm
- |6| Sensitivity adjustment: poti
- |7| Connection

Adjustments possible

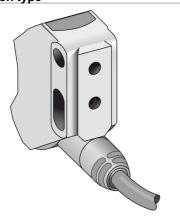


- |2| LED indicator yellow: Light received
- |3| Green LED indicator: supply voltage active
- |6| Sensitivity adjustment: poti

Connection diagram



Connection type



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