

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 turns Light spot size (distance): Ø 750 mm (5 m)

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:

 \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

Output current Imax.: 100 mA ≤ 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 Sender off, TE to 0 V

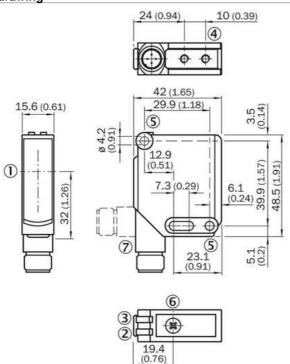
Test input sender off: Ambient operating temperature: -40 °C ... 60 °C Ambient storage temperature: -40 °C ... 75 °C

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 .:

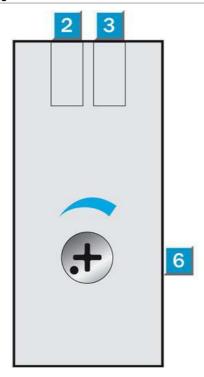
1) Limit values, operation in short-circuit protected network max. 8 A $\stackrel{2)}{}$ May not exceed or fall short of $\stackrel{V}{S}$ tolerances $\stackrel{3)}{}$ Without load $\stackrel{5)}{}$ Signal transit time with resistive load $\stackrel{6)}{}$ With light/dark ratio 1:1 $\stackrel{7)}{}$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

Dimensional drawing



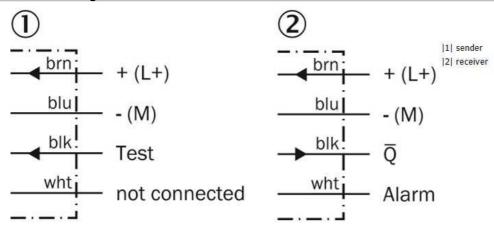
- |1| Optical axis
- |2| LED indicator yellow: Light received
- |3| Green LED indicator: supply voltage active
- |4| M4 threaded mounting hole, 4 mm deep
- |5| Mounting hole, Ø 4.2 mm
- |6| Sensitivity adjustment: poti
- |7| Connection

Adjustments possible

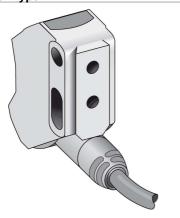


- |2| LED indicator yellow: Light received
- |3| Green LED indicator: supply voltage active
- |6| Sensitivity adjustment: poti

Connection diagram



Connection type



Australia

Phone +61 3 9457 0600 1800 33 48 02 - tollfree

E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66

E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900

E-Mail marketing@sick.com.br

Phone +1 905 771 14 44 E-Mail information@sick.com

Česká republika

Phone +420 2 57 91 18 50

E-Mail sick@sick.cz

China

Phone +86 4000 121 000 E-Mail info.china@sick.net.cn Phone +852-2153 6300

Danmark

Phone +45 45 82 64 00

E-Mail ghk@sick.com.hk

E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301

E-Mail info@sick.de

Phone +34 93 480 31 00

E-Mail info@sick.es

France

Phone +33 1 64 62 35 00

E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121

E-Mail info@sick.co.uk

Phone +91-22-4033 8333

E-Mail info@sick-india.com

Israel

Phone +972-4-6881000

E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41

E-Mail info@sick.it

Phone +81 (0)3 5309 2112

E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680

E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44

E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00

E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0

E-Mail office@sick.at

Phone +48 22 837 40 50

E-Mail info@sick.pl

România

Phone +40 356 171 120

E-Mail office@sick.ro

Phone +7-495-775-05-30

E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39

E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732

E-Mail sales.gsg@sick.com

Slovenija

Phone +386 (0)1-47 69 990

E-Mail office@sick.si

South Africa

Phone +27 11 472 3733

E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4

E-Mail info@sickkorea.net

Phone +358-9-25 15 800

E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00

E-Mail info@sick.se

Phone +886 2 2375-6288

E-Mail sales@sick.com.tw

Phone +90 (216) 528 50 00

E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 88 65 878

E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780

1 (800) 325-7425 - tollfree

E-Mail info@sickusa.com

More representatives and agencies

at www.sick.com

