

IM08-06NNS-ZW1







Inductive proximity sensors Cylindrical threaded housing, IM08

Model Name > IM08-06NNS-ZW1

Part No. > 6027507





At a glance

- · Triple operating distance up to 6 mm
- Operating temperature from -25 °C to +70 °C
- · High switching frequencies
- Sizes M8

Your benefits

- · Reduced machine downtime and maintenance costs
- Large operating reserve due to triple operating distance improves machine throughput - no missed targets
- Saves installation space on the machine. Less space required for the same operating distance when compared with standard sensors
- Lower risk of mechanical damage due their ability to be mounted further from the target
- High level of sensitivity makes them suitable for detecting difficult parts such as wires, thin sheets, small screws – reduces design and installation time



Features

Design: Cylindrical Thread size: M8 x 1 Sensing range Sn: 6 mm Assured sensing range Sa: 4.86 mm Installation type: Non-flush 500 Hz Switching frequency: NPN Output type: Output function: NO Electrical wiring: DC 3-wire IP 67 1) Enclosure rating:

Electrical connection: Cable, 3-wire, 2 m

Housing: Standard

1) According to EN 60529

Mechanics/electronics

Supply voltage: $10 \text{ V DC } \dots 30 \text{ V DC}$ Residual ripple: $\leq 20 \frac{1}{2}$

Voltage drop: \leq 2 V $^{2)}$ Power consumption: \leq 10 mA $^{3)}$ Time delay before availability: \leq 50 ms

Hysteresis: 1% ... 15%Repeatability:: \leq 5 % $^{4)} 5)$ Temperature drift (of Sr): \pm 10 %

EMC: According to EN 60947-5-2

 Output current la:
 ≤ 200 mA

 Cable material:
 PVC

 Conductor cross-section:
 0.14 mm²

 Cable diameter:
 3.5 mm

 Short-circuit protection:
 ✓

 Reverse polarity protection:
 ✓

 Power-up pulse protection:
 ✓

Shock and vibration resistance: 30 g, 11 ms/10 ... 55 Hz, 1 mm

Adjustment indicator: -

Ambient temperature operation: -25 °C ... 70 °C

Housing material: Metal, Chrome-plated brass

Housing cap material: Plastic, PBTP

Housing length: 45 mm Thread length: 41 mm Tightening torque, max.: \leq 4 Nm

1) Of V $_{S}^{2}$ At I $_{a}$ max $_{a}^{3}$ Without load $_{a}^{4}$ Of Sr $_{b}^{5}$ UB = 20 V DC ... 30 V DC, TA = 23 °C ± 5 °C $_{b}^{6}$ LED lights continuously (0 ≤ s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ 0.8 Sr); LED flashing (0.8 Sr < s

Reduction factors

Note: The values are reference values which may vary

 Stainless steel (V2A, 304):
 Ca. 0.77

 Copper (Cu):
 Ca. 0.44

 Aluminum (Al):
 Ca. 0.47

 Brass (Br):
 Ca. 0.55

Installation note

 A:
 8 mm

 B:
 20 mm

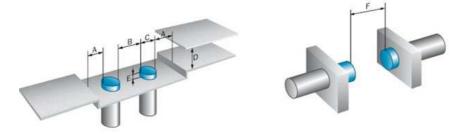
 C:
 8 mm

 D:
 18 mm

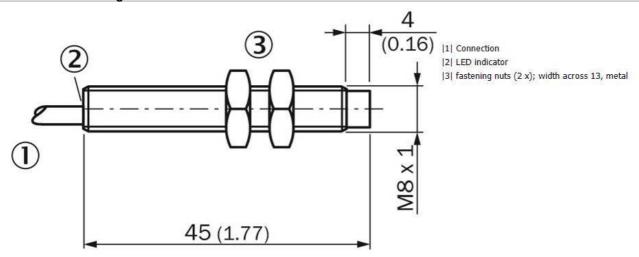
 E:
 8 mm

 F:
 60 mm

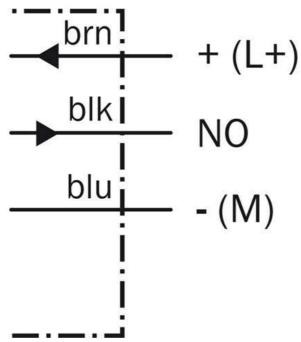
Remark: Associated graphic see "Installation"



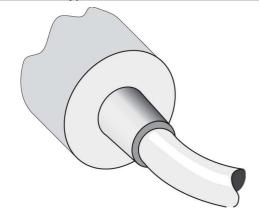
Dimensional drawing



All dimensions in mm (inch)



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 E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00 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

