



IM05-0B8PS-ZW1

IM Miniature

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Ordering information

Model name	Part no.
IM05-0B8PS-ZW1	6011591

Other models and accessories → www.sick.de/IM_Minature



Detailed technical data

Features

Housing	Cylindrical
Thread size	M5 x 0.5
Sensing range S_n	0,8 mm
Assured sensing range S_a	0,648 mm
Installation type	Flush
Switching frequency	5.000 Hz
Connection type	Cable, 3-wire, 2 m
Output type	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP 67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 20 % ¹⁾
Voltage drop	≤ 2 V ²⁾
Current consumption	≤ 10 mA ³⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 10 %
Repeatability	≤ 1,5 % ⁴⁾
Temperature drift (of S_r)	≤ 10 %

¹⁾ Of V_S .

²⁾ With $I_a = 200$ mA.

³⁾ Without load.

⁴⁾ $U_b = 20$ V DC ... 30 V DC, $T_a = 23$ °C ± 5 °C.

EMC	According to EN 60947-5-2
Continuous current I_a	≤ 200 mA
Cable material	PVC
Conductor size	0,14 mm ²
Cable diameter	3,5 mm
Short-circuit protection	✓
Reverse polarity protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Stainless steel, Stainless steel
Housing cap material	Plastic, PA 66
Housing length	25 mm
Thread length	20 mm
Tightening torque, max.	≤ 1,5 Nm

1) Of V_S.

2) With I_a = 200 mA.

3) Without load.

4) U_b = 20 V DC ... 30 V DC, T_a = 23 °C ± 5 °C.

Reduction factors

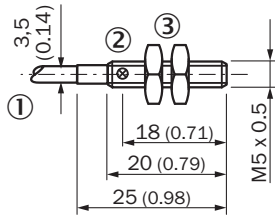
Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0,8
Aluminum (Al)	Approx. 0,5
Copper (Cu)	Approx. 0,45
Brass (Br)	Approx. 0,55

Installation note

Remark	Associated graphic see "Installation"
A	0,8 mm
B	0 mm
C	5 mm
D	2,4 mm
E	0 mm
F	7 mm

Dimensional drawing (Dimensions in mm (inch))

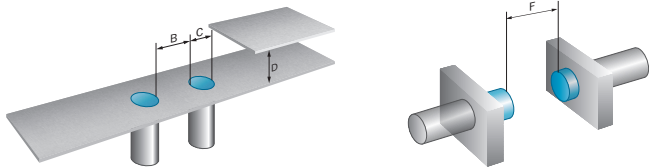
IM05, cable, flush



- ① Connection
- ② Status LED
- ③ Fastening nuts (2 x); 7 mm hex, stainless steel

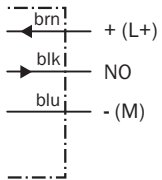
Installation note

Flush installation



Connection diagram

Cd-001



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

Canada

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

España

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

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

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

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

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

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 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