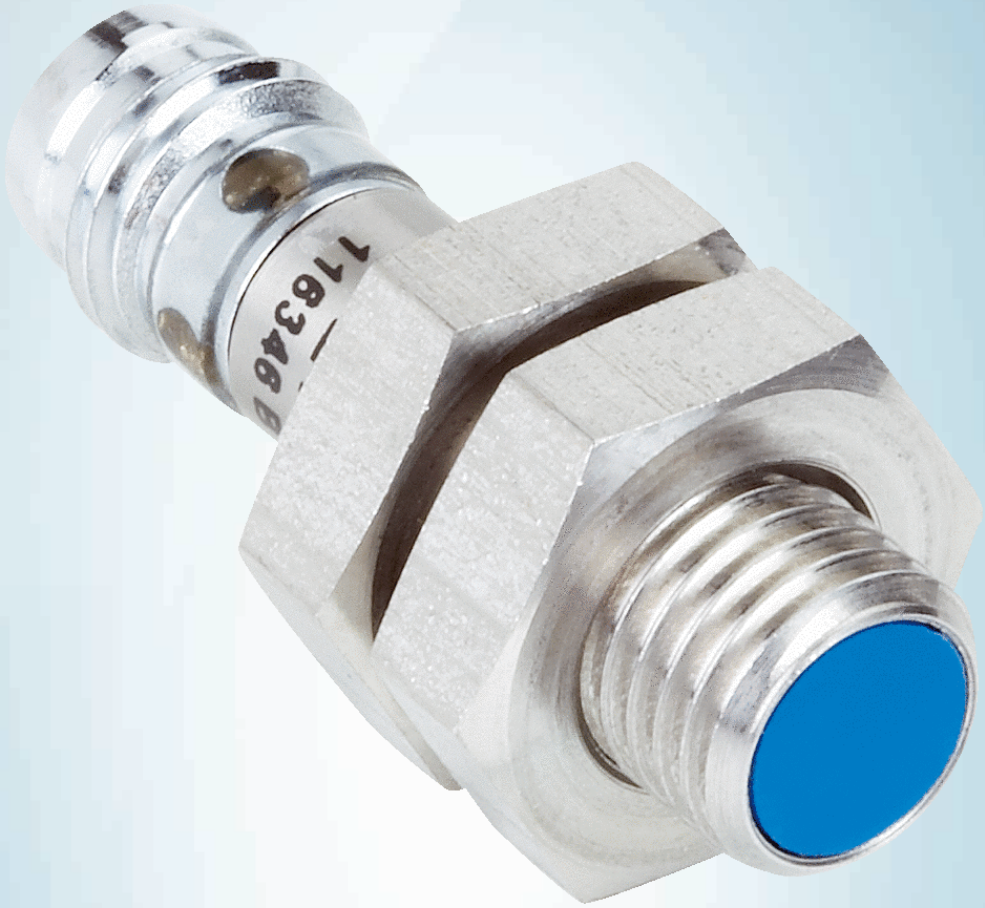
Product data sheet



IM08-1B5NO-ZW1

IM Standard

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.

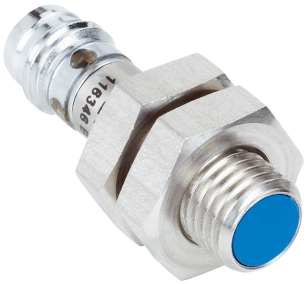


Illustration may differ

Ordering information

Type	Part no.
IM08-1B5NO-ZW1	6020218

Other models and accessories ➜ www.sick.com/IM_Standard

Detailed technical data

Features

Housing	Metric
Housing	Standard design
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S_n	1.5 mm
Installation type	Flush
Switching frequency	3,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 [1]

[1] According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 1.2 V [1]
Time delay before availability	≤ 100 ms
Hysteresis	2 % ... 10 %
Reproducibility	≤ 2 % [2] [3]
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2

[1] At I_a max.

[2] Supply voltage U_B and constant ambient temperature Ta.

[3] Of Sr.

Continuous current I_a	≤ 200 mA
Cable material	PVC
Conductor size	0.14 mm²
Short-circuit protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	–25 °C ... +70 °C
Housing material	Brass, Nickel-plated brass
Sensing face material	Plastic
Housing length	45 mm
Thread length	40.2 mm
Tightening torque, max.	4 Nm

[1] At I_a max.

[2] Supply voltage U_B and constant ambient temperature Ta.

[3] Of Sr.

Reduction factors

Stainless steel (V4A, 316L)	0.78
Aluminum (Al)	0.38
Copper (Cu)	0.29
Brass (Br)	0.49

Installation note

Remark	Associated graphic see "Installation"
A	3.25 mm
B	8 mm
C	8 mm
D	4.5 mm
E	0 mm
F	12 mm

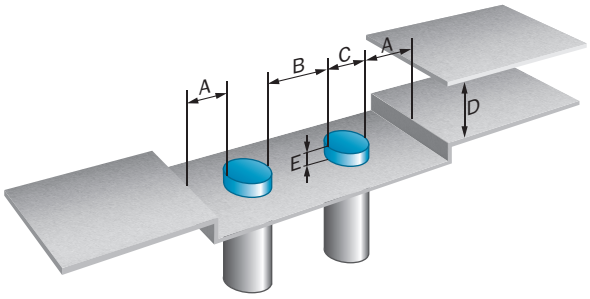
Classifications

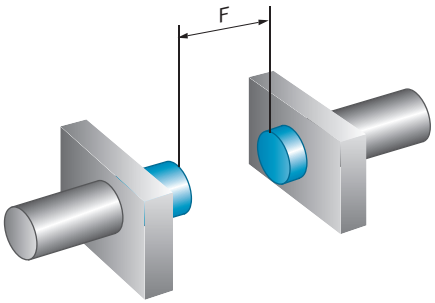
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714

ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Non-flush installation



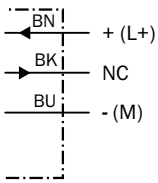


Connection type

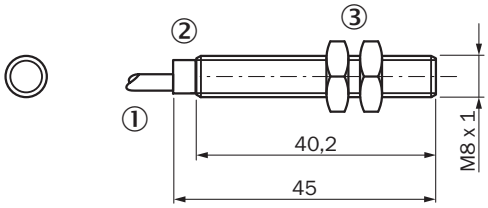


Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))



① Connection
② Display LED
③ Fastening nuts (2x); width across 13, metal

Recommended accessories

Other models and accessories ➜ www.sick.com/IM_Standard

	Brief description	Type	Part no.
Mounting brackets and plates			
	Mounting plate for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M08	5321722
	Mounting bracket for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M08	5321721
Terminal and alignment brackets			
	Clamping block for round sensors M8, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KH-M08	2051477

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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C4P-SA03031A00 MPS-128TSTP0 WL11-2P2432 YF8U14-050UA3XLEAX BEF-WN-W18
IMB12-04BPPVC0K LFP2000-A4NMB MPS-160TSTP0 DFS60B-S4PC10000 IME12-04BNOZC0S
IME12-04BPSZW2S PLV14-A WTB2S-2P3230 C4C-SA06030A10000 IMB12-04BNPVC0S WFM50-60P311
WTB26I-24161420A00 YF8U14-020UA3XLEAX BEF-KHZT01MPA GL10G-P4251 S30A-XXXXBA
IME08-04NPSZW2K IM18-12NNS-ZQD IME12-08NPSZW2K KUP-0610-S VT12T-2P112 FX3-MPL000001
IMB18-12NPSVC0S IME12-04BPOZW2K SBO-02F12-SM1