



INDUCTIVE PROXIMITY SENSORS



IM12-04BPS-ZWK | IM Standard

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IM12-04BPS-ZWK	6025682

Other models and accessories -> www.sick.com/IM_Standard





Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body
Thread size	M12 x 1
Diameter	Ø 12 mm
Sensing range S _n	4 mm
Installation type	Flush
Switching frequency	2,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NO
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 % ¹⁾
Voltage drop	\leq 1.5 V ²⁾
Time delay before availability	≤ 100 ms
Hysteresis	1 % 15 %
Reproducibility	< 5 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %

 $^{^{1)}}$ Of $\rm V_S.$

 $^{2)}\,\mathrm{At}\,\mathrm{I}_{\mathrm{a}}$ max.

 $^{\rm 3)}$ Supply voltage U_B and constant ambient temperature Ta.

⁴⁾ Of Sr.

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EMC	According to EN 60947-5-2
Continuous current I _a	≤ 300 mA
Cable material	PVC
Conductor size	0.22 mm ²
Wire-break protection	✓
Short-circuit protection	✓
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +75 °C
Housing material	Brass, Nickel-plated brass
Sensing face material	Plastic
Housing length	40 mm
Thread length	30 mm
Tightening torque, max.	7 Nm

 $^{^{1)}}$ Of $\rm V_S.$

²⁾ At I_a max.

 $^{\rm (3)}$ Supply voltage ${\rm U}_{\rm B}$ and constant ambient temperature Ta.

⁴⁾ Of Sr.

Installation note

Remark	Associated graphic see "Installation"
A	6 mm
В	12 mm
С	12 mm
D	12 mm
E	2 mm
F	32 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

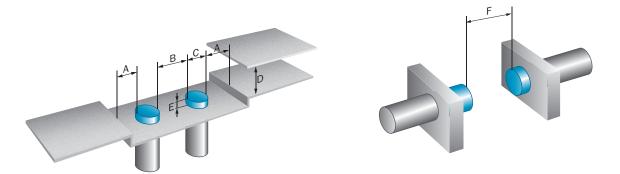
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ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Non-flush installation

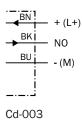


Connection type



Connection diagram

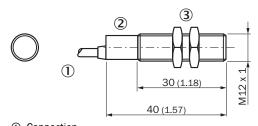
Cd-001





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Dimensional drawing (Dimensions in mm (inch))



Connection
Display LED

③ Fastening nuts (2x); width across 17, metal

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting plate for M12 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M12	5321869
40	Mounting bracket for M12 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M12	5308447
Terminal and alignment brackets			
	Clamping block for round sensors M12, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $% \left(\frac{1}{2}\right) =0$	BEF-KH-M12	2051479
	Clamping block for round sensors M12, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KHF-M12	2051480

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:

Contacts and other locations -www.sick.com



Online data sheet

