

IM30-22BPO-ZCK

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IM30-22BPO-ZCK	6025568

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

Illustration may differ





Detailed technical data

Features

Housing	Metric
Housing	Short-body
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range S _n	22 mm
Safe sensing range S _a	17.82 mm
Installation type	Quasi-flush 1)
Switching frequency	200 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ²⁾
Special features	Triple sensing range
Items supplied	Mounting nut, brass, chromium-plated (2x) Washer, brass, chromium-plated, with locking teeth (2x)

 $^{^{1)}}$ Please note the installation notes.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 20 % ¹⁾
Voltage drop	≤ 2 V ²⁾
Time delay before availability	≤ 200 ms

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

 $^{^{2)}}$ According to EN 60529.

²⁾ At I_a max.

 $^{^{4)}}$ UB = 20 V DC ... 30 V DC, TA = 23 °C \pm 5 °C.

Hysteresis	1 % 15 %
Reproducibility	≤ 5 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
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, chromium-plated
Sensing face material	Plastic, PTB
Housing length	48.5 mm
Thread length	35 mm
Tightening torque, max.	≤ 70 Nm

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

Safety-related parameters

MTTF _D	170 years
DC _{avg}	0%
T _M (mission time)	20 years

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.66
Aluminum (AI)	Approx. 0.4
Copper (Cu)	Approx. 0.35
Brass (Br)	Approx. 0.45

Installation note

Remark	Associated graphic see "Installation"
A	22 mm
В	50 mm
C	30 mm
D	66 mm
E	6 mm
F	220 mm

Classifications

ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101

²⁾ At I_a max.

³⁾ Of Sr.

 $^{^{4)}}$ UB = 20 V DC ... 30 V DC, TA = 23 °C \pm 5 °C.

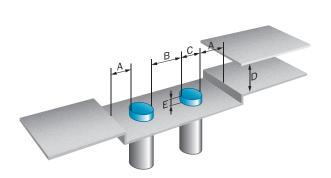
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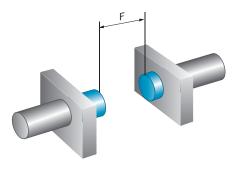
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ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Non-flush installation





Connection type

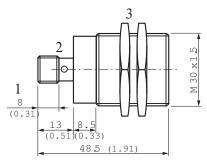


Connection diagram

Cd-008

Dimensional drawing (Dimensions in mm (inch))

IM30 Triplex, connector, quasi-flush, short-body version



- ① Connection
- ② Display LED
- 3 Fastening nuts (2x); width across 36, metal

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting plate for M30 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M30	5321871
40	Mounting bracket for M30 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M30	5308445
Others			
	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Description: Unshielded, Head A: female connector, M12, 4-pin, straight, unshielded, for power supply, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1204-G	6007302
	Connection type head A: Female connector, M12, 4-pin, angled, A-coded Description: Unshielded, Head A: female connector, M12, 4-pin, angled, unshielded, for power supply, for cable diameter 3 mm 6.5 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1204-W	6007303
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 020VB3XLEAX	2096234
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 050VB3XLEAX	2096235

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	Brief description	Туре	Part no.
3	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 020VB3XLEAX	2095895
3	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 050VB3XLEAX	2095897

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