

IMG30-15BNSZCOK

IMG

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMG30-15BNSZC0K	1135624

Included in delivery: BEF-MU-M30 (1)

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

Illustration may differ



Detailed technical data

Features

Housing	Metric
Housing	Short-body Short-body
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range S _n	15 mm
Safe sensing range S _a	12.15 mm
Installation type	Flush
Switching frequency	500 Hz
Connection type	Male connector M12, 4-pin
Switching output	NPN
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾ IP68 ¹⁾ IP69K ²⁾
Special features	Resistant against coolant lubricants, Temperature resistance
Special applications	Zones with coolants and lubricants, Mobile machines, Difficult application conditions
Items supplied	Mounting nut, brass, nickel-plated (2x)

 $^{^{1)}}$ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
117 3	

¹⁾ At I_a max.

²⁾ According to ISO 20653:2013-03.

 $^{^{\}rm 2)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

³⁾ Of Sr.

Ripple	≤ 10 %
Voltage drop	\leq 2 V ¹⁾
Time delay before availability	≤ 100 ms
Hysteresis	3 % 20 %
Reproducibility	≤ 2 % ^{2) 3)}
Temperature drift (of S _r)	± 10 %
ЕМС	According to EN 60947-5-2
Environmental test	Quick temperature change EN 60068-2-14, Na: TA = -25 °C, TB = 75 °C, t1 = 40 min, t2 = < 10 s, 300 cycles
Corrosion test	Salt spray test EN 60068-2-52: severity 5, 4 cycles
Continuous current I _a	≤ 200 mA
No load current	≤ 10 mA
Short-circuit protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	Vibration resistance acc. to EN 60068-2-6 Fc: 60 g peak (10 Hz 2,000 Hz) Long-term shock resistance acc. to EN 60068-2-27 Ea: 100 g 2 ms sinusoidal; 500 shocks in each direction of the 3 coordinate axes Broadband noise acc. to EN 60068-2-64: 15 g rms (5 Hz 2,000 Hz) / 8 hours in each direction of the 3 coordinate axes
Indication	
LED yell	w Switching status Permanently on: Switching output active
Ambient operating temperature	-40 °C +85 °C
Housing material	Nickel-plated brass
Sensing face material	Plastic, LCP
Housing length	50.7 mm
Thread length	32.7 mm
Tightening torque, max.	≤ 70 Nm
Protection class	III
UL File No.	E181493

 $^{^{1)}}$ At I $_{\rm a}$ max.

Safety-related parameters

MTTF _D	1,820 years
DC _{avg}	0 %
T _M (mission time)	20 years

Reduction factors

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.72
Aluminum (AI)	Approx. 0.37
Copper (Cu)	Approx. 0.29

 $^{^{2)}\,\}mbox{Supply voltage}\,\,\mbox{U}_{\mbox{\footnotesize{B}}}$ and constant ambient temperature Ta.

³⁾ Of Sr.

Brass (Br)	Approx. 0.39
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Installation note

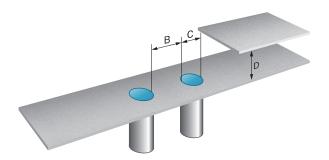
Remark	Associated graphic see "Installation"
В	40 mm
C	30 mm
D	45 mm
F	120 mm

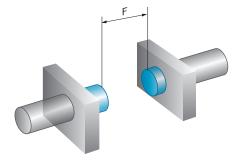
Classifications

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

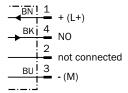
Flush installation



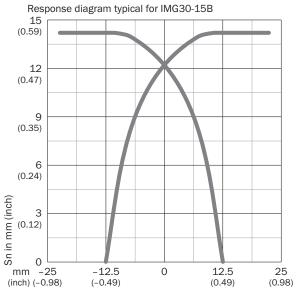


Connection diagram

Cd-007



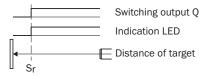
Response diagram



Distance of target edge to center of active face in mm (inch)

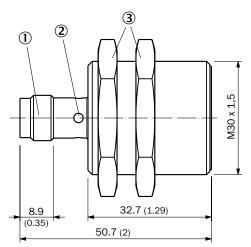
All dimensions in mm (inch)

Functional principle



Dimensional drawing (Dimensions in mm (inch))

IMG30, short variant, male connector, flush



- ① Connection
- ② Display LED
- ③ Fastening nuts (2x); AF36; nickel-plated brass

Recommended accessories

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

	Brief description	Туре	Part no.		
Mounting bra	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 Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A14- 020UB3XLEAX	2095607		
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