

IME18-05BPPZCOS

INDUCTIVE PROXIMITY SENSORS



INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IME18-05BPPZCOS	1046743

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



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard
Thread size	M18 1
Diameter	Ø 18 mm
Sensing range S _n	5 mm
Safe sensing range S _a	4.05 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	$\leq 2 V^{(1)}$
Current consumption	\leq 10 mA ²⁾
Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %

 $^{1)}$ At I_a max.

²⁾ Without load.

 $^{\rm (3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

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Reproducibility	≤ 2 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
Short-circuit protection	\checkmark
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms/10 Hz 55 Hz, 1 mm
Ambient operating temperature	-25 °C +75 °C
Housing material	Metal, Nickel-plated brass
Sensing face material	Plastic, Plastic
Housing length	69 mm
Thread length	52 mm
Tightening torque, max.	≤ 40 Nm
UL File No.	NRKH.E181493

¹⁾ At I_a max.

- ²⁾ Without load.
- ³⁾ Ub and Ta constant.
- ⁴⁾ Of Sr.

Reduction factors

Note	The values are reference values which may vary	
St37 steel (Fe)	1	
Stainless steel (V2A, 304)	Approx. 0.8	
Aluminum (AI)	Approx. 0.45	
Copper (Cu)	Approx. 0.4	
Brass (Br)	Approx. 0.4	

Installation note

Remark	Associated graphic see "Installation"
В	18 mm
c	18 mm
D	15 mm
F	40 mm

Classifications

ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101

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ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

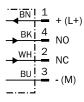
Installation note

Flush installation



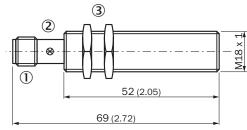
Connection diagram

Cd-006



Dimensional drawing (Dimensions in mm (inch))

IME18 Standard, connector, flush



 $\textcircled{1} \quad \textbf{Connection}$

- ② Indication LED
- ③ Fastening nuts (2x); width across 24, metal

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Recommended accessories

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

	Brief description	Туре	Part no.	
Universal bar	Universal bar clamp systems			
Ì	Universal bar clamp for mounting bars with 12 mm diameter, Zinc diecast, without mounting plate and screws	BEF-KHS-KH3	5322626	
Mounting bra	ckets and plates			
	Mounting plate for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M18	5321870	
40	Mounting bracket for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M18	5308446	
Terminal and	alignment brackets			
Cores	Clamping block for round sensors M18, without fixed stop, plastic (PA12), glass-fiber re- inforced, mounting hardware included	BEF-KH-M18	2051481	
	Clamping block for round sensors M18, with fixed stop, plastic (PA12), glass-fiber rein- forced, mounting hardware included	BEF-KHF-M18	2051482	
Plug connecto	ors and cables			
N	Head A: female connector, M12, 4-pin, straight, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14-020VB3XLEAX	2096234	
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14-050VB3XLEAX	2096235	
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF2A14-100VB3XLEAX	2096236	
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14-020VB3XLEAX	2095895	
1	Head A: female connector, M12, 4-pin, angled, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A14-050VB3XLEAX	2095897	
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: open cable ends Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YG2A14-100VB3XLEAX	2095898	
	Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302	
	Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-W	6007303	

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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."

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Online data sheet

