



IMB18-08BPPVC0S

IMB

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IMB18-08BPPVC0S	1074369

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S _n	8 mm
Safe sensing range S _a	6.48 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Male connector M12, 4-pin ¹⁾
Output type	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP68 ²⁾ IP69K ³⁾
Special features	Resistant against coolant lubricantsCapable of communication via IO-Link 1.0

 $^{^{1)}}$ With gold plated contact pins.

Communication interface

Communication interface	IO-Link V1.0
Mode	COM2 (38,4 kBaud)
Process data length	1 Byte
Process data structure	Bit 0 = Sr reached Bit 1 = Sa reached

²⁾ According to EN 60529.

³⁾ According to ISO 20653:2013-03.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	\leq 2 V $^{1)}$
Current consumption	\leq 10 mA $^{2)}$
Hysteresis	3 % 20 %
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	✓
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	$100\mathrm{g}/2$ ms / 500 cycles; $150\mathrm{g}/1$ Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / $60\mathrm{g}$
Ambient operating temperature	-40 °C +100 °C
Housing material	Stainless steel, V2A (1.4305)
Sensing face material	Plastic, LCP
Housing length	65 mm
Thread length	47 mm
Tightening torque, max.	Typ. 90 Nm ⁵⁾
Protection class	и ⁶⁾
UL File No.	E181493

¹⁾ At I_a max.

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.55
Aluminum (AI)	Approx. 0.24
Copper (Cu)	Approx. 0.19
Brass (Br)	Approx. 0.24

Installation note

Remark	Associated graphic see "Installation"
A	9 mm
В	18 mm
c	18 mm
D	24 mm
E	2 mm

²⁾ Without load.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

 $^{^{5)}}$ Valid if toothed side of nut is used.

⁶⁾ Reference voltage DC 50 V.

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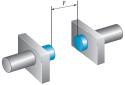
INDUCTIVE PROXIMITY SENSORS

F	64 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
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Flush installation





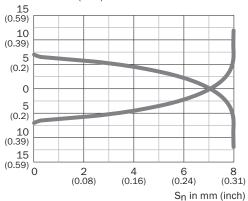
Connection diagram

Cd-006

Characteristic curve

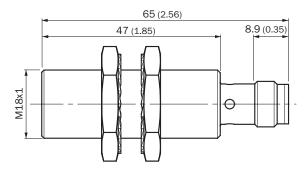
Flush installation





Dimensional drawing (Dimensions in mm (inch))

IMB18 Standard, connector, M12, flush



Recommended accessories

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

	Brief description	Туре	Part no.
Universal bar clamp systems			
6	Plate N06N for universal clamp bracket, M18, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp (5322626), mounting hardware	BEF-KHS-N06N	2051622
	Plate N11N for universal clamp bracket, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp (5322626), mounting hardware	BEF-KHS-N11N	2071081
Mounting brackets and plates			
ر آ یا	Mounting plate for M18 sensors, Stainless steel, without mounting hardware	BEF-WG-M18N	5320948

	Brief description	Туре	Part no.	
40	Mounting bracket for M18 sensors, Stainless steel, without mounting hardware	BEF-WN-M18N	5320947	
Plug connecto	Plug connectors and cables			
WO	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-G02MC	6025900	
•	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-G02MRN	6058291	
No.	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-G05MC	6025901	
•	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-G05MRN	6058476	
5	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: drag chain use, PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-L02MRN	6058482	
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: drag chain use, PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-L05MRN	6058483	
5	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-W02MRN	6058474	
6	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-W05MC	6025904	
9	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked.	DOL-1204-W05MRN	6058477	
No.	Head A: male connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	STL-1204-G02MC	6028077	
	Head A: male connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	STL-1204-G05MC	6048170	

	Brief description	Туре	Part no.
1/2	Head A: male connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	STL-1204-W05MC	6037472
	Head A: female connector, M12, 4-pin, angled Head B: male connector, M12, 4-pin, straight Cable: drag chain use, PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H202 and CH202. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked.	DSL-1204-B02MRN	6058502
	Head A: female connector, M12, 4-pin, angled Head B: male connector, M12, 4-pin, straight Cable: drag chain use, PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H202 and CH202. Before permanent installation is car- ried out, the material's resistance to the cleaning agent being used must be checked.	DSL-1204-B05MRN	6058503
6	Head A: female connector, M12, 4-pin, straight Head B: male connector, M12, 4-pin, straight Cable: drag chain use, PP, unshielded, 2 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DSL-1204-G02MRN	6058499
1000	Head A: female connector, M12, 4-pin, straight Head B: male connector, M12, 4-pin, straight Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DSL-1204-G05MC	6033245
6	Head A: female connector, M12, 4-pin, straight Head B: male connector, M12, 4-pin, straight Cable: drag chain use, PP, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H202 and CH202. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked.	DSL-1204-G05MRN	6058500

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