



IME18-12NNSZW2S

IME

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
IME18-12NNSZW2S	1040992

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



Detailed technical data

Features

Housing	Cylindrical standard
Thread size	M18 x 1
Sensing range S_n	12 mm
Assured sensing range S_a	9.72 mm
Installation type	Non-flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 2 m
Output type	NPN
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP 67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 2 V ¹⁾
Current consumption	≤ 10 mA ²⁾
Time delay before availability	≤ 100 ms
Hysteresis	5 % ... 15 %
Repeatability	≤ 2 % ³⁾ ⁴⁾
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2

¹⁾ At I_a max.

²⁾ Without load.

³⁾ U_b and T_a constant.

⁴⁾ Of S_r .

Continuous current I_a	≤ 200 mA
Cable material	PVC
Short-circuit protection	✓
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
Housing cap material	Plastic, PA6
Housing length	67 mm
Thread length	42 mm
Tightening torque, max.	40 Nm
UL File No.	NRKH.E181493

1) At I_a max.

2) Without load.

3) U_b and T_a constant.

4) Of Sr.

Reduction factors

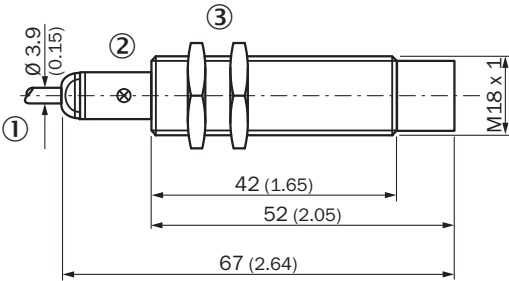
Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (Al)	Approx. 0.45
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.4

Installation note

Remark	Associated graphic see "Installation"
A	18 mm
B	36 mm
C	18 mm
D	36 mm
E	24 mm
F	96 mm

Dimensional drawing (dimensions in mm (inch))

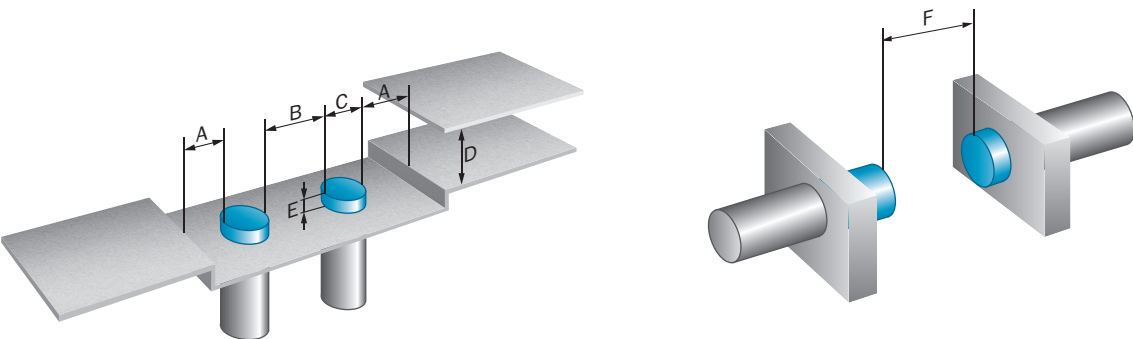
IME18 Standard, cable, non-flush



- ① Connection
- ② Display LED
- ③ Fastening nuts (2 x); width across 24, metal

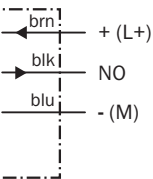
Installation note

Non-flush installation



Connection diagram

Cd-001



Recommended accessories

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

Brief description		Type	Part no.
Mounting brackets and mounting plates			

	Brief description	Type	Part no.
	Mounting plate for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M18	5321870
	Mounting bracket, M18 thread, steel, zinc coated, without mounting hardware	BEF-WN-M18	5308446
Terminal and alignment brackets			
	Clamping block for round sensors M18, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KH-M18	2051481
	Clamping block for round sensors M18, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KHF-M18	2051482

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