

IME18-20NNOZW2K

IME

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IME18-20NNOZW2K	1071268

Included in delivery: BEF-MU-M18 (2)

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









Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S _n	20 mm
Safe sensing range S _a	16.2 mm
Installation type	Non-flush
Switching frequency	200 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾
Special features	Triple sensing range

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	10 mA ²⁾
Time delay before availability	≤ 100 ms

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

²⁾ Without load.

 $^{^{}m 3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

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
Current consumption, no load	≤ 10 mA
Cable material	PVC
Conductor size	0.25 mm ²
Cable diameter	Ø 3.9 mm
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
Ambient operating temperature Ambient storage temperature	-25 °C +75 °C -25 °C +75 °C
Ambient storage temperature	-25 °C +75 °C
Ambient storage temperature Housing material	-25 °C +75 °C Brass, nickel-plated
Ambient storage temperature Housing material Sensing face material	-25 °C +75 °C Brass, nickel-plated Plastic, PA 66
Ambient storage temperature Housing material Sensing face material Housing length	-25 °C +75 °C Brass, nickel-plated Plastic, PA 66 48 mm
Ambient storage temperature Housing material Sensing face material Housing length Thread length	-25 °C +75 °C Brass, nickel-plated Plastic, PA 66 48 mm 23 mm

 $^{^{1)}}$ At I_a max.

Safety-related parameters

MTTF _D	1,735 years
DC _{avg}	0%

Reduction factors

Note	The values are reference values which may vary	
St37 steel (Fe)	1	
Stainless steel (V2A, 304)	Approx. 0.78	
Aluminum (AI)	Approx. 0.43	
Copper (Cu)	Approx. 0.37	
Brass (Br)	Approx. 0.4	

Installation note

Remark	Associated graphic see "Installation"
Α	30 mm
В	86 mm
c	18 mm

²⁾ Without load.

 $^{^{}m 3)}$ Ub and Ta constant.

⁴⁾ Of Sr.

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INDUCTIVE PROXIMITY SENSORS

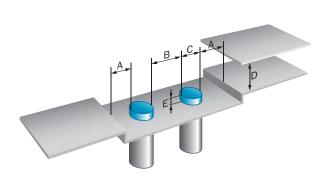
D	60 mm
E	20 mm
F	200 mm

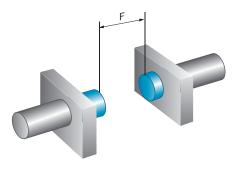
Classifications

ECI@ss 5.0 27270101	
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	
ECI@ss 10.0 27270101	
ECI@ss 11.0 27270101	
ETIM 5.0 EC002714	
ETIM 6.0 EC002714	
ETIM 7.0 EC002714	
UNSPSC 16.0901 39122230	

Installation note

Non-flush installation





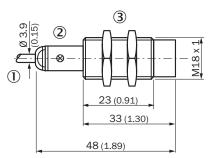
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IME18 Short-body housing, cable, non-flush



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

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets 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			
	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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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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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