

IME30-20BPOZW2K

INDUCTIVE PROXIMITY SENSORS



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Ordering information

Туре	Part no.
IME30-20BPOZW2K	1071282

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

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

Illustration may differ



Detailed technical data

Features

Housing	Metric
Housing	Short-body
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range S _n	20 mm
Safe sensing range S _a	16.2 mm
Installation type	Quasi-flush
Switching frequency	200 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾
Special features	Triple sensing range
Items supplied	Mounting nut, brass, nickel-plated (2x)

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	\leq 2 V $^{1)}$

¹⁾ At I_a max.

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

³⁾ Of Sr.

Time delay before availability	≤ 200 ms
Warm-up time	60 s
Hysteresis	1 % 15 %
Reproducibility	≤ 5 % ^{2) 3)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
No load current	≤ 10 mA
Cable material	PVC
Conductor size	0.25 mm ²
Cable diameter	Ø 3.9 mm
Short-circuit 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 temperature, storage	-25 °C +75 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PA 66
Housing length	51 mm
Thread length	35 mm
Tightening torque, max.	≤ 70 Nm

 $^{^{1)}}$ 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. 0.35
Copper (Cu)	Approx. 0.27
Brass (Br)	Approx. 0.38

Installation note

Remark	Associated graphic see "Installation"
A	33 mm
В	80 mm
c	30 mm

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

³⁾ Of Sr

IME30-20BPOZW2K | IME

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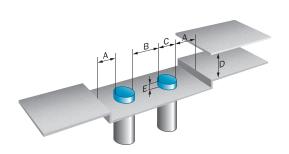
D	60 mm
E	6 mm
F	200 mm

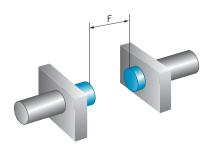
Classifications

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 6.0 27270101 ECLASS 6.2 27270101 ECLASS 7.0 27270101 ECLASS 8.0 27270101 ECLASS 8.1 27270101
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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
EC002714
UNSPSC 16.0901 39122230

Installation note

Quasi-flush installation





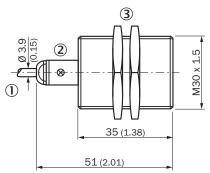
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IME30 Short-body housing, cable, flush



- ① Connection
- ② Display LED
- ③ Fastening nuts (2x); width across 36, metal

Recommended accessories

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

	Brief description	Туре	Part no.
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

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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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