

IMG18-12BPSZW3KS01

IME

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IMG18-12BPSZW3KS01	1102287

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

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

Illustration may differ







Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Ultrashort
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S _n	12 mm
Safe sensing range S _a	9.72 mm
Installation type	Quasi-flush
Switching frequency	500 Hz
Connection type	Cable, 3-wire, 3 m
Switching output	PNP
Output function	NO
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⁾
Hysteresis	3 % 20 %

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

²⁾ Without load.

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

⁴⁾ Of Sr.

Reproducibility	≤ 2 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
Cable material	PVC
Short-circuit protection	✓
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	$100~{\rm g}/2~{\rm ms}/500$ cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz / 1 mm; 55 Hz 500 Hz / 60 g
Ambient operating temperature	-25 °C +75 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, LCP
Housing length	31 mm
Thread length	26 mm
Tightening torque, max.	Typ. 12 Nm
Items supplied	Mounting nut, brass, nickel-plated (2x)
Protection class	III
UL File No.	E181493

¹⁾ At I_a max.

Reduction factors

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.5
Aluminum (AI)	Approx. 0.3
Copper (Cu)	Approx. 0.23
Brass (Br)	Approx. 0.32

Installation note

Remark	Associated graphic see "Installation"
Α	13.5 mm
В	35 mm
c	18 mm
D	36 mm
E	4 mm
F	120 mm

Classifications

ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101

²⁾ Without load.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

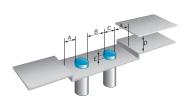
IMG18-12BPSZW3KS01 | IME

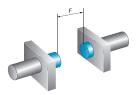
INDUCTIVE PROXIMITY SENSORS

ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@SS 6.2	2/2/0101
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

Quasi-flush installation





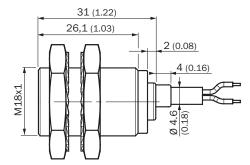
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

Extremely short IMG18 model, cable, flush



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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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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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