

IM30-10BUS-ZU0

IMW

INDUCTIVE PROXIMITY SENSORS



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Ordering information

Туре	Part no.
IM30-10BUS-ZU0	7902126

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

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

Illustration may differ









Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard design
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range S _n	10 mm
Safe sensing range S _a	8.1 mm
Installation type	Flush
Switching frequency	25 Hz ¹⁾ 30 Hz ²⁾
Connection type	Cable, 2-wire, 2 m
Output function	NO
Electrical wiring	AC/DC 2-wire
Enclosure rating	IP67 ³⁾
Items supplied	Mounting nut, brass, nickel-plated (2x)

¹⁾ AC.

Mechanics/electronics

Supply voltage	20 V AC/DC 250 V AC/DC
Voltage drop	≤ 6.5 V AC, ≤ 6 V DC

 $^{^{1)}}$ Supply voltage Ub and constant ambient temperature Ta.

²⁾ DC.

³⁾ According to EN 60529.

²⁾ Of Sr.

 $^{^{3)}}$ Repeatability (T_a not constant).

⁴⁾ AC (+50 °C).

⁵⁾ AC (+80 °C).

⁶⁾ DC.

 $^{^{7)}\,20~\}text{ms}\,/\,0.5~\text{Hz}.$

 $^{^{8)}}$ Miniature fuse to IEC 60217-2 Sheet 1, \leq 2 A (quick-blow).

 $^{^{9)}}$ Control of small electromagnetic loads with holding currents < 200 mA.

 $^{^{10)}}$ Control of solenoids.

Time delay before availability	≤ 8 ms
Hysteresis	1 % 15 %
Reproducibility	≤ 10 % ^{1) 2) 3)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2 As per EN 55011, class B
Continuous current I _a	\leq 350 mA $^{4)}$ \leq 250 mA $^{5)}$ \leq 100 mA $^{6)}$
Off-state current	≤ 2.5 mA (AC 250 V) ≤ 1.3 mA (AC 110 V) ≤ 0.8 mA (DC 24 V)
Minimum load current	≥ 5 mA
Short-time withstand current	2.2 A ⁷⁾
Cable material	PUR/PVC
Conductor size	0.5 mm ²
Short-circuit protection	8)
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PBT
Housing length	81 mm
Thread length	59 mm
Tightening torque, max.	≤ 50 Nm
Protection class	II
Rated insulation voltage U _i	250 V AC
Usage category	AC-140 ⁹⁾ DC-13 ¹⁰⁾
Contamination rating	3
Rated impulse withstand voltage	4 kV

 $^{^{1)}\,\}mbox{Supply}$ voltage Ub and constant ambient temperature Ta.

Safety-related parameters

MTTF _D	971 years
DC _{avg}	0 %
T _M (mission time)	20 years

²⁾ Of Sr.

³⁾ Repeatability (T_a not constant).

⁴⁾ AC (+50 °C).

⁵⁾ AC (+80 °C).

⁶⁾ DC.

 $^{^{7)}}$ 20 ms / 0.5 Hz.

 $^{^{8)}}$ Miniature fuse to IEC 60217-2 Sheet 1, \leq 2 A (quick-blow).

 $^{^{9)}}$ Control of small electromagnetic loads with holding currents < 200 mA.

¹⁰⁾ Control of solenoids.

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Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (AI)	Approx. 0.45
Copper (Cu)	Approx. 0.4

Installation note

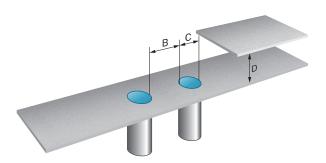
Remark	Associated graphic see "Installation"
A	0 mm
В	30 mm
C	30 mm
D	30 mm
E	0 mm
F	80 mm

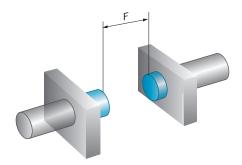
Classifications

eCl@ss 5.0	27270101
eCl@ss 5.1.4	27270101
eCl@ss 6.0	27270101
eCl@ss 6.2	27270101
eCl@ss 7.0	27270101
eCl@ss 8.0	27270101
eCl@ss 8.1	27270101
eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101
eCl@ss 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Flush installation



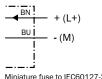


Connection type



Connection diagram

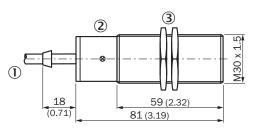
Cd-121



Miniature fuse to IEC60127-2 sheet 1, ≤ 2 A (fast acting)

Dimensional drawing (Dimensions in mm (inch))

IM30, AC/DC 2-wire, cable, flush



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

Recommended accessories

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

	Brief description	Туре	Part no.	
Universal bar	Universal bar clamp systems			
	Plate N10 for universal clamp bracket, M30, Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (5322626), mounting hardware	BEF-KHS-N10	2062372	
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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