



Inductive proximity sensors Cylindrical threaded housing, IM12

IM12-02BAS-ZZ0

Model Name > [IM12-02BAS-ZZ0](#)
Part No. > [6020627](#)



At a glance

- Size M12
- IP 67 enclosure rating
- Operating temperature from -25° C to +75° C

Your benefits

- Reduced machine downtime
- Reduced mechanical damage
- Fewer maintenance costs due to longer service life
- High resistance to shock and vibrations



Features

Housing:	Cylindrical
Thread size:	M12 x 1
Sensing range Sn:	2 mm
Installation type:	Flush
Switching frequency:	25 Hz
Output function:	NO
Electrical wiring:	AC 2-wire
Enclosure rating:	IP 67 ¹⁾
Connection type:	1/2" connector
Housing:	Standard

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	20 V AC ... 250 V AC
Voltage drop:	≤ 8.5 V ¹⁾
Time delay before availability:	≤ 10 ms
Hysteresis:	1 % ... 15 %
Repeatability:	≤ 10 % ^{2) 3)}
Temperature drift (% of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 200 mA (80 °C), ≤ 250 mA (50 °C)
Off-state current:	≤ 1.5 mA (AC 120 V), ≤ 3 mA (AC 250 V)
Load resistance, min.:	8 mA
Short-time withstand current:	0.9 A ⁴⁾

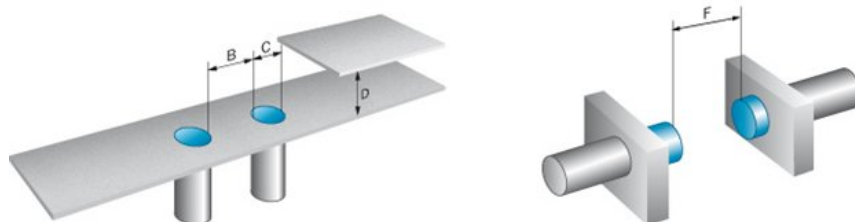
Wire-break protection:	0
Short-circuit protection ⁵⁾ :	-
Reverse polarity protection:	-
Power-up pulse protection:	✓
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... 80 °C
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic
Housing length:	71 mm
Thread length:	50 mm
Tightening torque, max.:	≤ 7 Nm
Protection class:	II

1) At I_a max 2) Ub and Ta constant 3) Of Sr 4) 20 ms/0.5 Hz 5) Miniature fuse as per IEC 60217-2 Sheet 1, ≤ 2 A (quick-blow)

Installation note

A:	0 mm
B:	12 mm
C:	12 mm
D:	6 mm
E:	0 mm
F:	16 mm
Remark:	Associated graphic see "Installation"

Installation note



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