

IM30-22BNS-ZC1







Inductive proximity sensors Cylindrical threaded housing, IM30

Model Name > IM30-22BNS-ZC1

Part No. > 6033033





At a glance

- Triple operating distance up to 40 mm
- Operating temperature from -25 °C to +70 °C
- · High switching frequencies
- Sizes M30

Your benefits

- Reduced machine downtime and maintenance costs
- Large operating reserve due to triple operating distance improves machine throughput - no missed targets
- Saves installation space on the machine. Less space required for the same operating distance when compared with standard sensors
- Lower risk of mechanical damage due their ability to be mounted further from the target
- High level of sensitivity makes them suitable for detecting difficult parts such as wires, thin sheets, small screws – reduces design and installation time



Features

Design: Cylindrical Thread size: M30 x 1.5 Sensing range Sn: 22 mm 17.82 mm Assured sensing range Sa: Quasi-flush 1) Installation type: 200 Hz Switching frequency: NPN Output type: Output function: NO Electrical wiring: DC 3-wire IP 67²⁾ Enclosure rating:

Electrical connection: Connector M12, 4-pin

Housing: Standard

1) Please note the installation notes 2) According to EN 60529

Mechanics/electronics

Supply voltage: $10 \text{ V DC } \dots 30 \text{ V DC}$ Residual ripple: $\leq 20 \%^{1}$ Voltage drop: $\leq 2 \text{ V}^{2}$

Power consumption: $\leq 10 \text{ mA}^{3)}$

Time delay before availability: \leq 200 ms Hysteresis: 1 % ... 15 % Repeatability:: \leq 5 % $^{4)$ 5) Temperature drift (of Sr): \pm 10 %

EMC: According to EN 60947-5-2

Output current la: ≤ 200 mA

Short-circuit protection:

Reverse polarity protection:

Power-up pulse protection:

Shock and vibration resistance: 30 g, 11 ms/10 ... 55 Hz, 1 mm

Ambient temperature operation: -25 °C ... 70 °C

Housing material: Metal, Chrome-plated brass

Housing cap material:

Housing length:

73.5 mm

Thread length:

73.5 mm

73.5 mm

70 Nm

1) Of $V_S^{(2)}$ At I_a max 3) Without load 4) Of Sr 5) UB = 20 V DC ... 30 V DC, TA = 23 °C ± 5 °C

Reduction factors

Note: The values are reference values which may vary

 Stainless steel (V2A, 304):
 Ca. 0.66

 Copper (Cu):
 Ca. 0.35

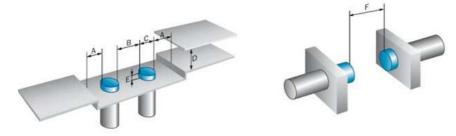
 Aluminum (Al):
 Ca. 0.4

 Brass (Br):
 Ca. 0.45

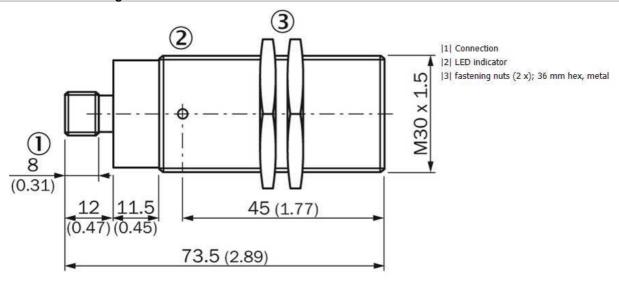
Installation note

A: 22 mm
B: 50 mm
C: 30 mm
D: 66 mm
E: 6 mm
F: 220 mm

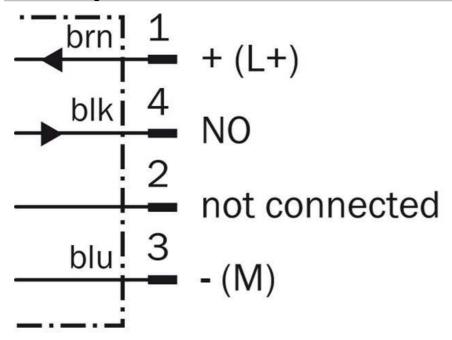
Remark: Associated graphic see "Installation"



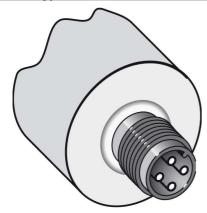
Dimensional drawing



All dimensions in mm (inch)



Connection type



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