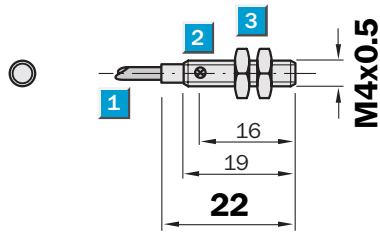


Sensing range
0.6 mm

Inductive sensor

- Can be installed flush
- High switching frequency
- Short-circuit protection (pulsed)
- Robust brass housing, nickel-plated with fine thread
M4 x 0.5 mm
- Enclosure rating IP 67

Dimensional drawing

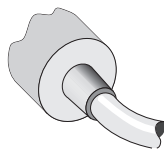


- 1 Connection
- 2 Display LED
- 3 Fastening nuts (2 x); width across 6, metal

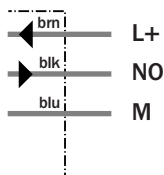


Connection type

- IM04-0B6NS-ZU1
- IM04-0B6PS-ZU1



3 x 0.06 mm²



Technical data		IM04-	OB6NS -ZU1	OB6PS -ZU1								
Sensing range S_n	0.6 mm											
Electrical configuration	DC 3-wire											
Supply voltage V_s	DC 10 ... 30 V											
Ripple V_{pp}	$\leq 20\%$ ¹⁾											
Voltage drop V_d	$\leq 0.6\text{ V}$ ²⁾											
Current consumption	$\leq 10\text{ mA}$ ³⁾											
Continuous current I_a	$\leq 100\text{ mA}$											
Time delay before availability t_v	$\leq 10\text{ ms}$											
Hysteresis H (of s_r)	10 %											
Repeatability R	$\leq 2\%$ (U_b and T_a constant)											
Temperature drift, of s_r	$\pm 10\%$											
EMC	According to EN 60 947-5-2											
Switching output	PNP											
	NPN											
Output function	Normally open ⁴⁾											
Installation	Flush											
Connection types	Cable, PUR, 2 m											
Enclosure rating	IP 67 ⁵⁾											
Max. switching frequency	5,000 Hz											
Dimensions	M4 x 0.5 ⁶⁾											
Short-circuit protection	✓ ⁷⁾											
Reverse polarity protection	✓											
Power-up pulse suppression	✓											
Shock / vibration stress	30 g, 11 ms / 10 ... 55 Hz, 1 mm											
Ambient temperature T_a	-25 °C ... +70 °C											
Housing material	Brass nickel-plated, plastic											
Tightening material	0.8 Nm											

¹⁾ of U_b
²⁾ at $I_a = 50\text{mA}$

³⁾ without load
⁴⁾ normally closed function available on

request
⁵⁾ according to EN 60 529

⁶⁾ thread diameter x pitch (mm)
⁷⁾ (pulsed)

Order information	
Type	Order no.
IM04-OB6NS-ZU1	6 020 146
IM04-OB6PS-ZU1	6 020 145