



Inductive proximity sensors Cylindrical threaded housing, IMF12

IMF12-04NPOVCOS



Model Name > IMF12-04NPOVC0S
Part No. > 6035458



At a glance

- Size M12
- Extremely watertight (IP 68/IP 69K)
- Extended temperature range (-40 to +80 °C). Tolerates short-term temperature increases up to 100 °C
- Stainless steel housing (316L/1.4404)
- Front cap made of PPS (FDA-certified material)
- Resistant to industrial cleaning agents, ECOLAB and JohnsonDiversey certified

Your benefits

- Reduced machine downtime
- Hygienic process due to FDA approved material and hygienic design
- Reduced maintenance costs due to sensor's resistance to aggressive cleaning cycles
- No restrictions on cleaning agents or processes, ensuring reliable operation



Features

Housing:	Cylindrical
Thread size:	M12 x 1
Sensing range Sn:	4 mm
Assured sensing range Sa:	3.24 mm
Installation type:	Non-flush
Switching frequency:	2,000 Hz
Output type:	PNP
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating::	IP 68, IP 69K ^{1) 2)}
Connection type:	Connector M12, 4-pin ³⁾

¹⁾ According to EN 60529 ²⁾ According to EN40050 ³⁾ With gold plated contact pins

Mechanics/electronics

Supply voltage:	10 V ... 30 V
Ripple:	≤ 10 %
Voltage drop:	≤ 2 V
Power consumption:	≤ 15 mA ¹⁾
Time delay before availability:	Ca. 50 ms

Hysteresis:	1 % ... 20 %
Repeatability:	5 % ²⁾ ³⁾
Temperature drift (% of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current I _a :	≤ 200 mA
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock/vibration:	30 g, 11 ms/10 Hz ... 55 Hz, 1 mm
Ambient operating temperature:	-40 °C ... 80 °C ⁴⁾
Housing material:	Stainless steel, Stainless steel V4A (1.4404, 316L)
Housing cap material:	PPS
Housing length:	65 mm
Thread length:	33 mm
Tightening torque, max.:	20 Nm

¹⁾ Without load ²⁾ U_b and T_a constant ³⁾ Of Sr ⁴⁾ +100 °C for 15 minutes

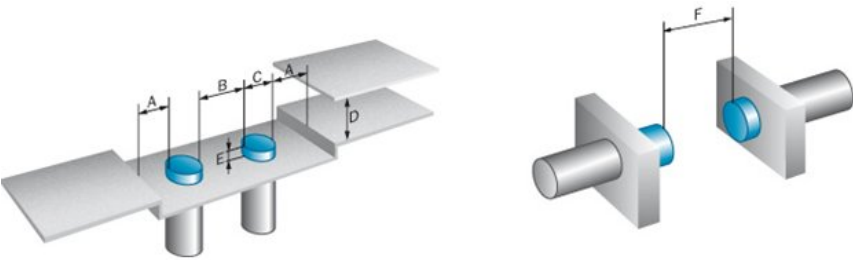
Reduction factors

Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.33
Aluminum (Al):	Ca. 0.4
Brass (Br):	Ca. 0.5

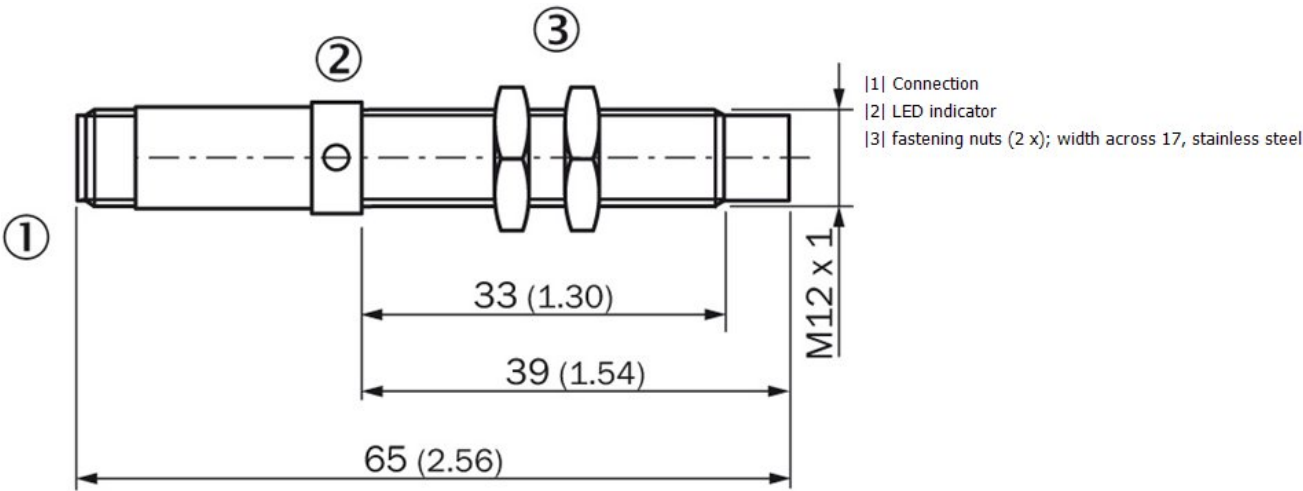
Installation note

A:	12 mm
B:	24 mm
C:	12 mm
D:	12 mm
E:	6 mm
F:	32 mm
Remark:	Associated graphic see "Installation"

Installation note

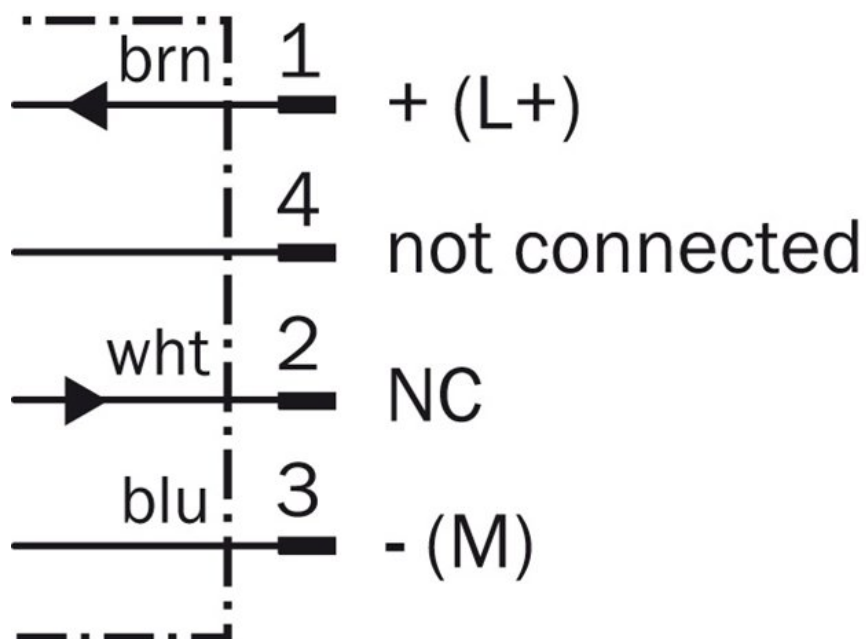


Dimensional drawing

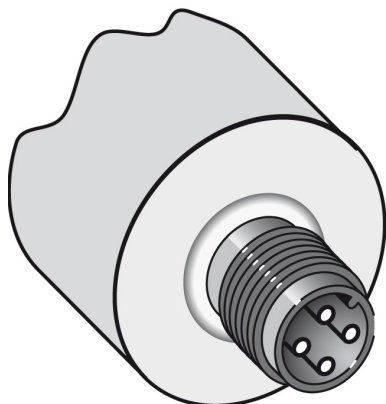


All dimensions in mm (inch)

Connection diagram



Connection type



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