



Indukcyjne czujniki zbliżeniowe Cylindrical threaded housing, IMP12

IMP12-1B5PSVC0B



Nazwa modelu > **IMP12-1B5PSVC0B**

Numer części > **6050113**



At a glance

- Pressure resistant up to 500 bar
- Expected service life of up to 1 million pressure cycles
- Sensing range of 1.5 mm flush
- IP 68
- Stainless steel housing with active surface made from stable high-performance ceramic
- State-of-the-art ASIC technology from SICK
- Gas-tight at the sensor face
- 3 and 4-wire versions

Your benefits

- Reduced maintenance costs
- Extremely resilient and durable
- Up to 50 times longer service life compared to conventional sensors under pressure cycles
- Simple compensation of cylinder tolerances
- Simple integration due to small design
- Controlled piston deceleration
- Increased piston service life due to collision prevention at the end of the work cycle



Cechy

Budowa:	Cylindryczna
Wymiar gwintu:	M12 x 1
Sensing range Sn:	1,5 mm
Assured sensing range Sa:	1,2 mm
Pressure resistance:	≤ 500 bar
Instalacja w metalu:	Zabudowana
Częstotliwość przełączania:	600 Hz
Wyjście przełączające:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Rodzaj zabezpieczenia:	IP 68 ¹⁾
Sposób przyłączenia:	Wtyk M12, 4-pin

¹⁾ Sensing face

Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC
Vacuum resistance:	10-8Torr ¹⁾
Tętnienia resztkowe:	≤ 20 % ²⁾
Spadek napięcia:	≤ 2 V ³⁾
Pobór prądu:	≤ 10 mA ⁴⁾
Czas osiągnięcia dostępności:	≤ 50 ms
Histereza:	1 % ... 15 % ⁵⁾
Odtwarzalność:::	≤ 7 % ^{6) 7)}
Przesunięcie cieplne (Sr):	≤ 15 %
Kompatybilność elektromagnetyczna::	Zgodna z EN 60947-5-2
Output current Ia:	≤ 200 mA
Zabezpieczenie przed zwarciami:	✓
Zabezpieczenie przed zmianą biegunowości:	✓
Power-up pulse protection:	-
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... +80 °C
Tworzywo, obudowa:	Stainless steel, V2A
Tworzywo, obudowa:	Ceramics, ZrO2
Size support ring:	10 mm x 5.9 mm x 1 mm
Size sealing ring:	5.3 mm x 2.4 mm
Material sealing ring:	FPM
Długość obudowy:	56 mm
Thread length:	28 mm
Moment dokręcania:	≤ 40 Nm

¹⁾ Przednie ²⁾ Of V_S ³⁾ With Ia = 200 mA ⁴⁾ Bez obciążenia ⁵⁾ Typ. 8% ^{6) 7)}

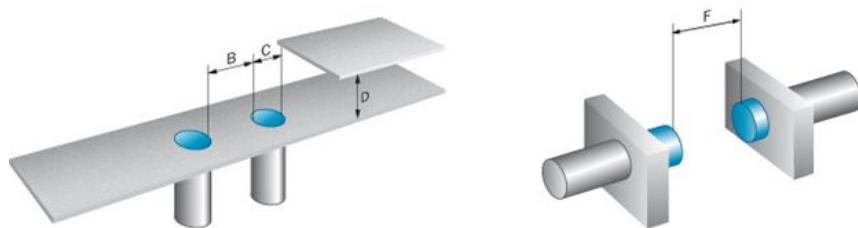
Współczynniki redukcyjne

Uwaga:	The values are reference values which may vary
Carbon steel St37 (Fe):	1
Stainless steel (V2A, 304):	Ca. 0,75
Copper (Cu):	Ca. 0,12
Aluminum (Al):	Ca. 0,2
Brass (Br):	Ca. 0,34

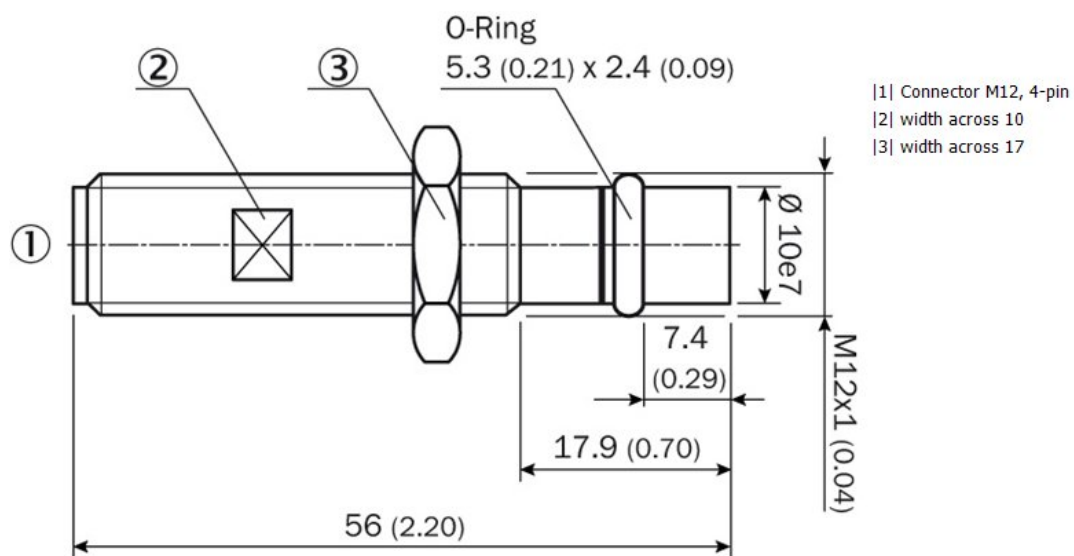
Instrukcje określające

Uwaga:	Associated graphic see "Installation"
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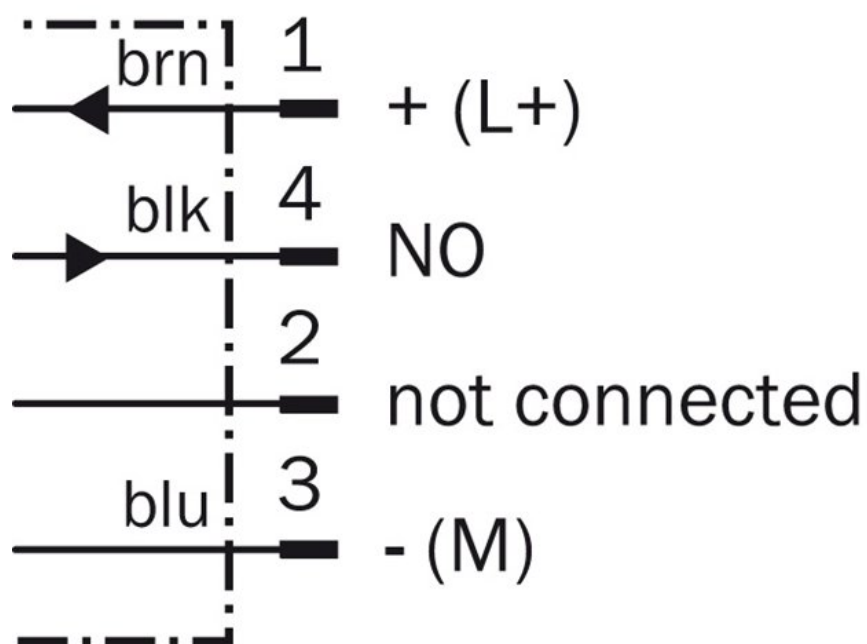
Installation note



Rysunek techniczny



Connection diagram



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