



Indukcyjne czujniki zbliżeniowe Cylindrical threaded housing, IMP05

IMP05-01BPSVU2S



Nazwa modelu > **IMP05-01BPSVU2S**

Numer części > **6050109**



At a glance

- Pressure resistant up to 500 bar
- Expected service life of up to 1 million pressure cycles
- Expanded temperature range of up to 100 °C
- Sensing range of 1 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

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:	M5 x 0,5
Sensing range Sn:	1 mm
Assured sensing range Sa:	0,8 mm
Pressure resistance:	≤ 500 bar
Instalacja w metalu:	Zabudowana
Częstotliwość przełączania:	1.000 Hz
Wyjście przełączające:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Rodzaj zabezpieczenia:	IP 68 ¹⁾
Sposób przyłączenia:	Cable, 3-wire, 2 m

¹⁾ Sensing face

Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Vacuum resistance:	10-8Torr ²⁾
Tętnienia resztkowe:	≤ 20 % ³⁾
Spadek napięcia:	≤ 2 V ³⁾
Pobór prądu:	≤ 10 mA ⁴⁾
Czas osiągnięcia dostępności:	≤ 30 ms
Histeresa:	1 % ... 15 % ⁵⁾
Odtwarzalność:::	≤ 5 % ^{6) 7)}
Przesunięcie cieplne (Sr)::	± 10 %, ± 15 % ^{8) 9)}
Kompatybilność elektromagnetyczna::	Zgodna z EN 60947-5-2
Output current Ia:	≤ 200 mA
Cable material:	PUR
Conductor cross-section:	0,14 mm ²
Cable diameter:	Ø 3,5 mm
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 ... +100 °C
Tworzywo, obudowa:	Stainless steel, Phynox
Tworzywo, obudowa:	Ceramics, ZrO ₂
Size support ring:	7.5 mm x 4.4 mm x 1 mm
Material support ring:	FPM
Długość obudowy:	27 mm
Thread length:	5 mm
Moment dokręcania:	≤ 5 Nm

¹⁾ Przednie ²⁾ Of V ³⁾ With Ia = 200 mA ⁴⁾ Bez obciążenia ⁵⁾ Typ. 8% ^{6) 7)} ⁸⁾ -25 °C...+70 °C ⁹⁾ +70 °C...+100 °C

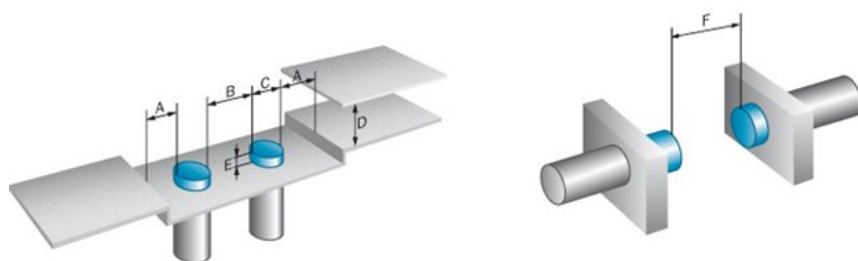
Współczynniki redukcyjne

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

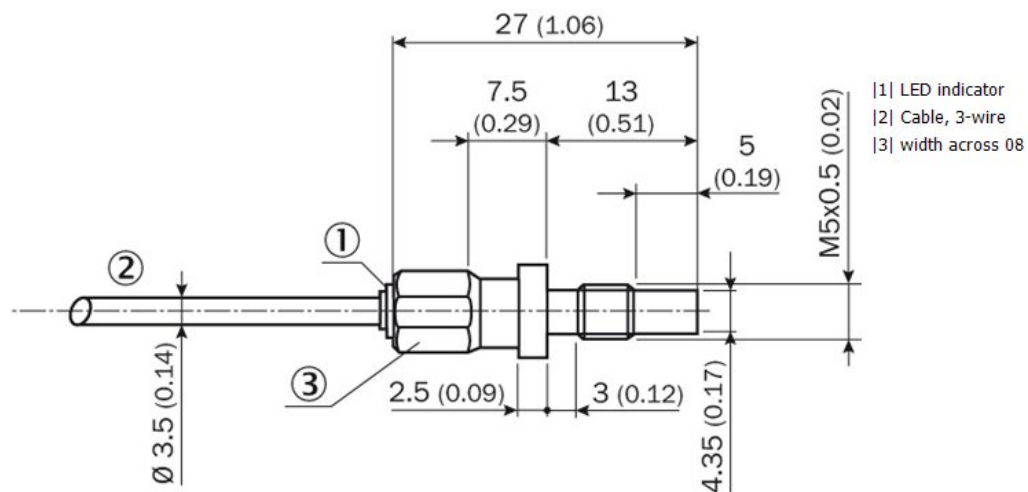
Instrukcje określające

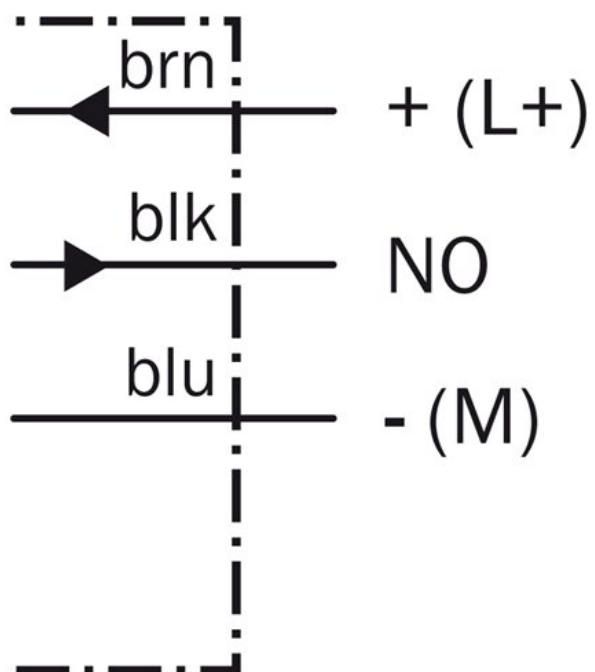
Uwaga:	Associated graphic see "Installation"
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Installation note



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