



## Indukcyjne czujniki zbliżeniowe Cylindrical threaded housing, IM08

IM08-06NNS-ZW1



Nazwa modelu > **IM08-06NNS-ZW1**

Numer części > **6027507**



#### At a glance

- Triple operating distance up to 6 mm
- Operating temperature from -25 °C to +70 °C
- High switching frequencies
- Sizes M8

#### 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



#### Cechy

|                             |                     |
|-----------------------------|---------------------|
| Budowa:                     | Cylindryczna        |
| Wymiar gwintu:              | M8 x 1              |
| Sensing range Sn:           | 6 mm                |
| Assured sensing range Sa:   | 4,86 mm             |
| Instalacja w metalu:        | Niezabudowany       |
| Częstotliwość przełączania: | 500 Hz              |
| Wyjście przełączające:      | NPN                 |
| Output function:            | NO                  |
| Electrical wiring:          | DC 3-wire           |
| Rodzaj zabezpieczenia:      | IP 67 <sup>1)</sup> |
| Sposób przyłączenia:        | Cable, 3-wire, 2 m  |
| Housing:                    | Standard            |

<sup>1)</sup> According to EN 60529

#### Mechanika/elektronika

|                      |                       |
|----------------------|-----------------------|
| Napięcie zasilania:  | 10 V DC ... 30 V DC   |
| Tętnienia resztkowe: | ≤ 20 % <sup>1)</sup>  |
| Spadek napięcia:     | ≤ 2 V <sup>2)</sup>   |
| Pobór prądu:         | ≤ 10 mA <sup>3)</sup> |

|                                           |                                |
|-------------------------------------------|--------------------------------|
| Czas osiągnięcia dostępności:             | ≤ 50 ms                        |
| Histeresa:                                | 1 % ... 15 %                   |
| Odtwarzalność:::                          | ≤ 5 % <sup>4) 5)</sup>         |
| Przesunięcie cieplne (Sr):                | ± 10 %                         |
| Kompatybilność elektromagnetyczna::       | Zgodna z EN 60947-5-2          |
| Output current I <sub>a</sub> :           | ≤ 200 mA                       |
| Cable material:                           | PVC                            |
| Conductor cross-section:                  | 0,14 mm <sup>2</sup>           |
| Cable diameter:                           | 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 |
| Adjustment indicator:                     | -                              |
| Ambient operating temperature:            | -25 °C ... 70 °C               |
| Tworzywo, obudowa:                        | Metal, Chrome-plated brass     |
| Tworzywo, obudowa:                        | Tworzywo sztuczne, PBTP        |
| Długość obudowy:                          | 45 mm                          |
| Thread length:                            | 41 mm                          |
| Moment dokręcania:                        | ≤ 4 Nm                         |

<sup>1)</sup> Of V<sub>S</sub> <sup>2)</sup> At I<sub>a</sub> max <sup>3)</sup> Without load <sup>4)</sup> Of Sr <sup>5)</sup> UB = 20 V DC ... 30 V DC, TA = 23 °C ± 5 °C <sup>6)</sup> LED lights continuously (0 ≤ s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ Sr)

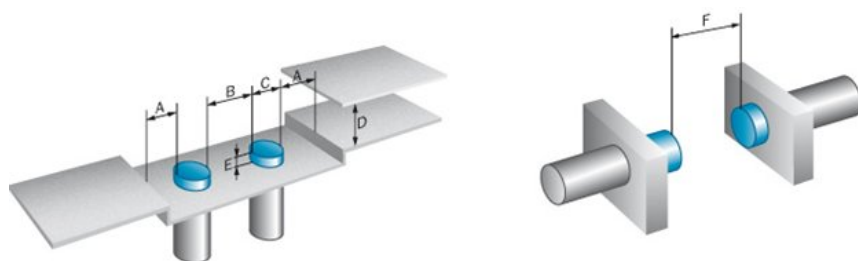
#### Współczynniki redukcyjne

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Uwaga:                      | The values are reference values which may vary |
| Stainless steel (V2A, 304): | Ca. 0,77                                       |
| Copper (Cu):                | Ca. 0,44                                       |
| Aluminum (Al):              | Ca. 0,47                                       |
| Brass (Br):                 | Ca. 0,55                                       |

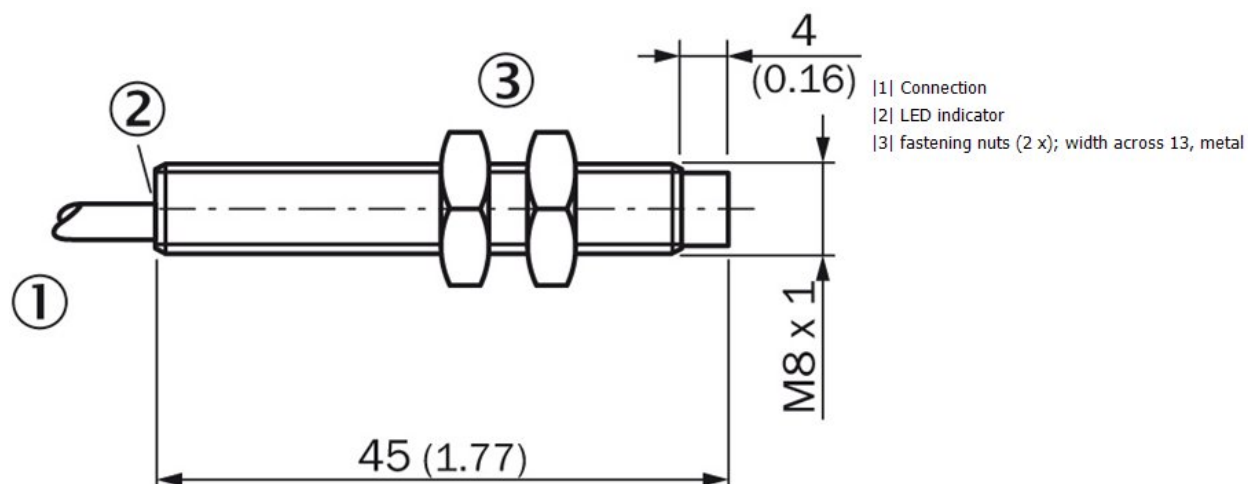
#### Instrukcje określające

|        |                                       |
|--------|---------------------------------------|
| A:     | 8 mm                                  |
| B:     | 20 mm                                 |
| C:     | 8 mm                                  |
| D:     | 18 mm                                 |
| E:     | 8 mm                                  |
| F:     | 60 mm                                 |
| Uwaga: | Associated graphic see "Installation" |

## Installation note non-flush installation



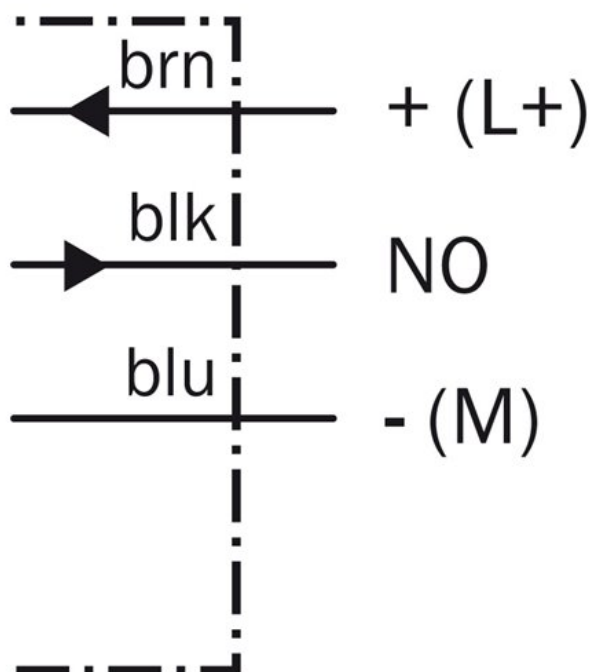
## Dimensional drawing



All dimensions in mm (inch)

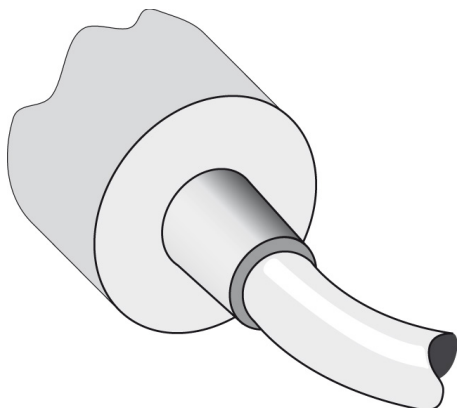
## Connection diagram

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## Connection type

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