

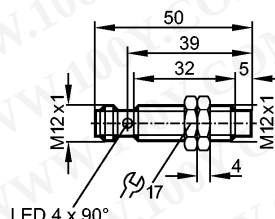


Inductive sensors

IFS205

IFB3007-BPKG/M/US  
 Inductive sensor  
 Metal thread M12 x 1  
 Connector  
 Increased sensing range  
 gold-plated contacts

Sensing range 7 mm [nf]  
 non-flush mountable



Made in Germany



Electrical design

Output

|                             |           |
|-----------------------------|-----------|
| Operating voltage           | [V]       |
| Current rating              | [mA]      |
| Short-circuit protection    |           |
| Reverse polarity protection |           |
| Overload protection         |           |
| Voltage drop                | [V]       |
| Current consumption         | [mA]      |
| Real sensing range          | [mm]      |
| Operating distance          | [mm]      |
| Switch-point drift          | [% of Sr] |
| Hysteresis                  | [% of Sr] |
| Switching frequency         | [Hz]      |
| Correction factors          |           |

|                     |      |
|---------------------|------|
| Ambient temperature | [°C] |
| Protection          |      |
| EMC                 |      |

|                        |      |
|------------------------|------|
| Housing materials      |      |
| Function display       |      |
| Switching status       | LED  |
| Connection             |      |
| Weight                 | [kg] |
| Accessories (included) |      |

DC PNP

normally open

|                             |                                                                                                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating voltage           | 10...36 DC                                                                                                                                                                                  |
| Current rating              | 100                                                                                                                                                                                         |
| Short-circuit protection    | pulsed                                                                                                                                                                                      |
| Reverse polarity protection | yes                                                                                                                                                                                         |
| Overload protection         | yes                                                                                                                                                                                         |
| Voltage drop                | < 2.5                                                                                                                                                                                       |
| Current consumption         | < 10 (24 V)                                                                                                                                                                                 |
| Real sensing range          | 7 ± 10 %                                                                                                                                                                                    |
| Operating distance          | 0...5.7                                                                                                                                                                                     |
| Switch-point drift          | -10...10                                                                                                                                                                                    |
| Hysteresis                  | 3...15                                                                                                                                                                                      |
| Switching frequency         | 700                                                                                                                                                                                         |
| Correction factors          | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3                                                                                          |
| Ambient temperature         | -25...70                                                                                                                                                                                    |
| Protection                  | IP 67, II                                                                                                                                                                                   |
| EMC                         | EN 61000-4-2 ESD: 4 kV CD / 8 kV AD<br>EN 61000-4-3 HF radiated: 10 V/m (80...1000 MHz)<br>EN 61000-4-4 Burst: 2 kV<br>EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz)<br>EN 55011: class B |
| Housing materials           | brass white bronze coated; active face: PBT                                                                                                                                                 |
| Function display            |                                                                                                                                                                                             |
| Switching status            | yellow (4 x 90°)                                                                                                                                                                            |
| Connection                  | M12 connector; gold-plated contacts                                                                                                                                                         |
| Weight                      | 0.025                                                                                                                                                                                       |
| Accessories (included)      | 2 lock nuts                                                                                                                                                                                 |

Wiring

