

Product characteristics

| |
|---|
| Inductive sensor |
| Plastic housing Ø 20 mm |
| Cable |
| Sensing range 10 mm; [nf] non-flush mountable |

Electrical data

| | |
|-----------------------------|----------------|
| Electrical design | AC/DC |
| Operating voltage [V] | 20...250 AC/DC |
| Protection class | II |
| Reverse polarity protection | no |

Outputs

| | |
|---------------------------|---|
| Output function | normally closed |
| Voltage drop [V] | < 6.5 AC / < 6 DC |
| Minimum load current [mA] | 5 |
| Leakage current [mA] | < 2.5 (250 V AC) / < 1.3 (110 V AC) / < 0.8 (24 V DC) |

Current rating

| | |
|------------------------------------|------------------------------------|
| - Current rating (continuous) [mA] | 250 AC / 100 DC; 350 AC (...50 °C) |
| - Current rating (peak) [mA] | î: 2.2 A (20 ms / 0.5 Hz) |
| Short-circuit proof | no |
| Overload protection | no |
| Switching frequency [Hz] | 25 AC / 70 DC |

Monitoring range

| | |
|------------------------------|-----------|
| Sensing range [mm] | 10 |
| Real sensing range (Sr) [mm] | 10 ± 10 % |
| Operating distance [mm] | 0...8.1 |

Accuracy / deviations

| | |
|------------------------------|---|
| Correction factors | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2 |
| Hysteresis [% of Sr] | 1...15 |
| Switch-point drift [% of Sr] | -10...10 |

Environment

| | |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection | IP 67 |

Tests / approvals

| | |
|--------------|-----------------------------------|
| EMC | EN 60947-5-2 EN 55011: class B |
| MTTF [Years] | 603 |

Mechanical data

IA0027

IA-2010-BBOA

Inductive sensors

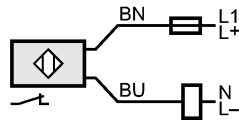
| | |
|-------------------|---------------------|
| Mounting | non-flush mountable |
| Housing materials | PBT |
| Weight [kg] | 0.165 |

| Displays / operating elements | |
|-------------------------------|------------|
| Output status indication | LED yellow |

| Electrical connection | |
|-----------------------|--|
| Connection | PVC cable / 2 m; 2 x 0.5 mm ² |

Wiring

Core colors
 BN brown
 BU blue



Note: miniature fuse to IEC60127-2 sheet 1, ≤ 2 A (fast acting)

| Accessories | |
|------------------------|----------------|
| Accessories (included) | Mounting clamp |

| Remarks | |
|-----------------------|---|
| Remarks | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity [piece] | 1 |