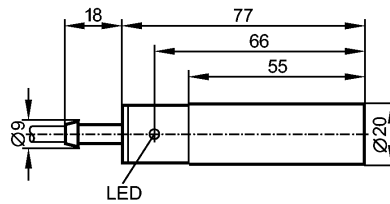


IA5050

IA-3010-APKG

Inductive sensors



Product characteristics

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

Electrical data

| | |
|-----------------------------|------------|
| Electrical design | DC PNP |
| Operating voltage [V] | 10...36 DC |
| Current consumption [mA] | 15 (24 V) |
| Protection class | II |
| Reverse polarity protection | yes |

Outputs

| | |
|--------------------------|--------------------|
| Output function | normally closed |
| Voltage drop [V] | < 2.5 |
| Current rating [mA] | 250 |
| Short-circuit protection | yes (non-latching) |
| Overload protection | yes |
| Switching frequency [Hz] | 300 |

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 |
| MTTF [Years] | 1844 |

Mechanical data

| | |
|-------------------|---------------------|
| Mounting | non-flush mountable |
| Housing materials | PBT |
| Weight [kg] | 0.175 |

Displays / operating elements

IA5050

IA-3010-APKG

Inductive sensors

| | | |
|--------------------------|-----|--------|
| Output status indication | LED | yellow |
|--------------------------|-----|--------|

Electrical connection

| | |
|------------|--|
| Connection | PVC cable / 2 m; 3 x 0.5 mm ² |
|------------|--|

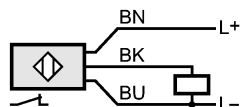
Wiring

Core colors

BN brown

BU blue

BK black



Accessories

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

Remarks

| | | |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|