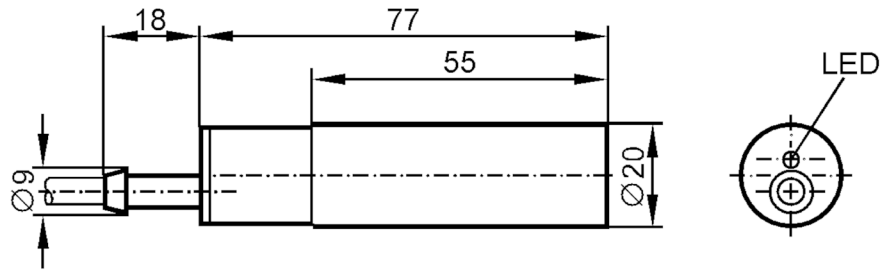




Inductive sensor

IA-2010SFROG/10M

Article no longer available - archive entry



Product characteristics

| | |
|--------------------|---|
| Electrical design | PNP; (self-monitoring system) |
| Output function | normally open / normally closed; (selectable) |
| Sensing range [mm] | 10 |
| Housing | cylindrical |
| Dimensions [mm] | Ø 20 |

Electrical data

| | |
|------------------------------------|--|
| Connection to switching amplifiers | yes |
| Switching amplifiers | connection to F400 control monitor or as 2-wire DC DNP |
| Operating voltage [V] | 10...36 DC |
| Reverse polarity protection | no |

Outputs

| | |
|--|---|
| Electrical design | PNP; (self-monitoring system) |
| Output function | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC [V] | 6.5 |
| Minimum load current [mA] | 5 |
| Max. leakage current [mA] | 1.5 |
| Permanent current rating of switching output DC [mA] | 100 |
| Switching frequency DC [Hz] | 70 |
| Short-circuit protection | no |
| Overload protection | no |

IA5020



Inductive sensor

IA-2010SFROG/10M

| Detection zone | | |
|-------------------------------|------------------|---|
| Sensing range | [mm] | 10 |
| Real sensing range Sr | [mm] | 10 ± 10 % |
| Operating distance | [mm] | 0...8.1 |
| Accuracy / deviations | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis | [% of Sr] | 1...15 |
| Switch point drift | [% of Sr] | -10...10 |
| Operating conditions | | |
| Ambient temperature | [°C] | -25...80 |
| Protection | | IP 67 |
| Mechanical data | | |
| Housing | | cylindrical |
| Mounting | | non-flush mountable |
| Dimensions | [mm] | Ø 20 |
| Materials | | PBT |
| Displays / operating elements | | |
| Display | switching status | 1 x LED, yellow |
| Accessories | | |
| Accessories (supplied) | | Mounting clamps: 1 |
| Remarks | | |
| Pack quantity | | 1 pcs. |

IA5020



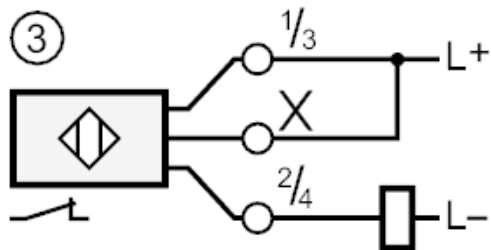
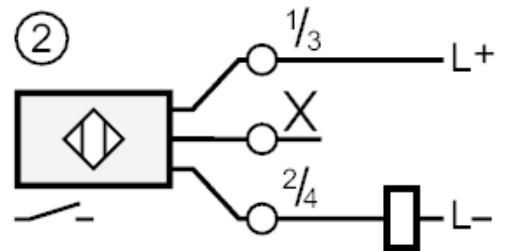
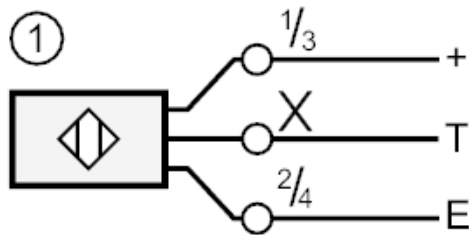
Inductive sensor

IA-2010SFROG/10M

Electrical connection

Cable: 10 m, PVC; 3 x 0.5 mm²

Connection



- 1 = connection to F400
2 = Connection 2-wire DC
3 = Connection 2-wire DC

Core colours :

- BK = black
BN = brown
BU = blue

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