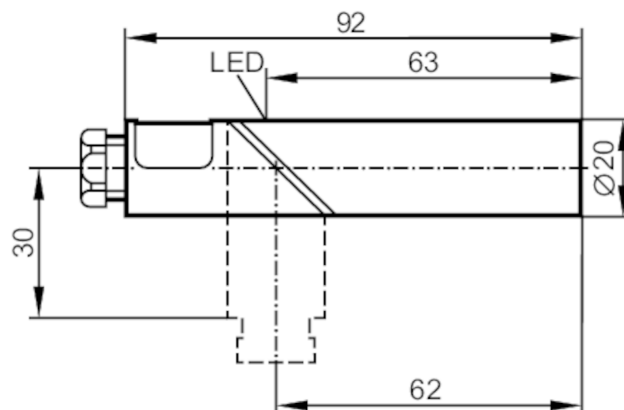




Inductive sensor

IAE2010SFROG

Article no longer available - archive entry



Product characteristics

| | |
|--------------------|--------------------------------------|
| Electrical design | PNP; (Self-monitoring system) |
| Output function | normally open / closed; (selectable) |
| Sensing range [mm] | 10 |
| Housing | tubular |
| Dimensions [mm] | Ø 20 / L = 92 |

Electrical data

| | |
|---------------------------------|--|
| Connection at circuit amplifier | yes |
| Switching amplifiers | Connection to F400 control monitor or as 2-wire DC DNP |
| Operating voltage [V] | 10...36 DC |
| Protection class | II |
| Reverse polarity protection | no |

Outputs

| | |
|--|--------------------------------------|
| Electrical design | PNP; (Self-monitoring system) |
| Output function | normally open / closed; (selectable) |
| Max. voltage drop switching output DC [V] | 8.5 |
| Minimum load current [mA] | 5 |
| Max. leakage current [mA] | 0.8 |
| Permanent current rating of switching output DC [mA] | 100 |
| Switching frequency DC [Hz] | 70 |
| Short-circuit protection | no |
| Overload protection | no |

Monitoring range

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



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Accuracy / deviations

| | | |
|--------------------|-----------|--|
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 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 65 |

Mechanical data

| | | |
|------------|------|---------------------|
| Housing | | tubular |
| Mounting | | non-flush mountable |
| Dimensions | [mm] | Ø 20 / L = 92 |
| Material | | PBT; LED window: PC |

Displays / operating elements

| | | |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

Accessories

| | | |
|----------------|--|-------------------|
| Items supplied | | Mounting clamp: 1 |
|----------------|--|-------------------|

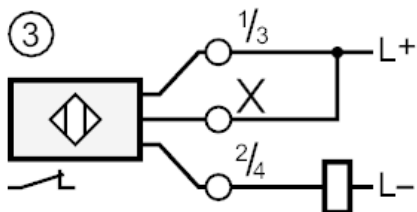
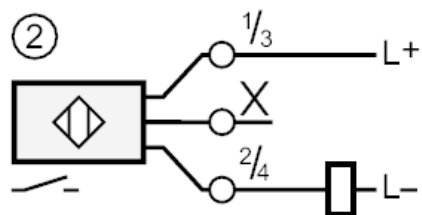
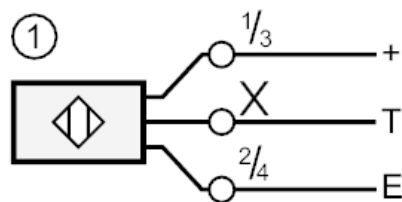
Remarks

| | | |
|---------------|--|--------|
| Pack quantity | | 1 pcs. |
|---------------|--|--------|

Electrical connection

terminals: ...2.5 mm²

Connection



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