

IB3001T3

Inductive sensors • Increased ambient temperature

Sensor inductive, M30x1.5 70long, flush, Sn: 10, 10-35V DC, 0-180°C, PNP NO, cable tail 15m PTFE, IP50, stainl. steel

including Nut



Inductive proximity switches are contactless sensors. They detect all conductive metals, regardless of whether they are moving or not. The switching distance that the devices can achieve depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or from the front. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. oven flaps), counting (e.g. nuts / screws), speed detection (e.g. on gear wheels), on conveyor systems (e.g. hose feeds) or distance measurement (e.g. press-fit inspection) of metallic objects.

Electrical features

| | |
|-------------------------------|--|
| Response/decay time | 2.5 ms |
| Type of switching function | Normally open contact (NO) |
| Type of electrical connection | Cable |
| Type of switching output | PNP |
| Rated switching current | 150 mA |
| Readiness delay | 6 ms |
| Relative hysteresis | 15 % |
| No-load current | 15 mA |
| Relative repeat accuracy | 3 % |
| Residual ripple | 10 % |
| Switching distance | 10 mm |
| Switching frequency | 200 Hz |
| Voltage drop | 2 V |
| Operating voltage (DC) | 10 - 35 V |
| ardSOCA_ElektrischerAnschluss | |
| ardSOCA_Betriebsspannung | |
| ardTEEL_Schutzfunktionen | Short circuit protection Reverse polarity protection |

Mechanical features

| | |
|--|------------------------|
| Number of cores | 3 |
| Conductor cross-section | 0.22 mm ² |
| Alignment of cable entry | axial |
| Design | Cylinder, screw-thread |
| Thread length | 60 mm |
| Thread pitch | 1.5 mm |
| Cable length | 15 m |
| Cable infeed | axial |
| Length | 70 mm |
| Mechanical mounting condition for sensor | flush |
| Degree of protection (IP) | IP50 |
| Active area material of sensor | Plastic (Vectra®) |
| Housing material | Stainless steel 1.4305 |
| Material of cable sheath | Plastic (PTFE) |
| Thread dimension | M30 |
| Ambient temperature | 0 - 180 °C |
| ardSOCA_Abmessungen | |

Other features

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| Reference medium / object | Standard measuring plate FE360 30x30x1mm |
|---------------------------|--|

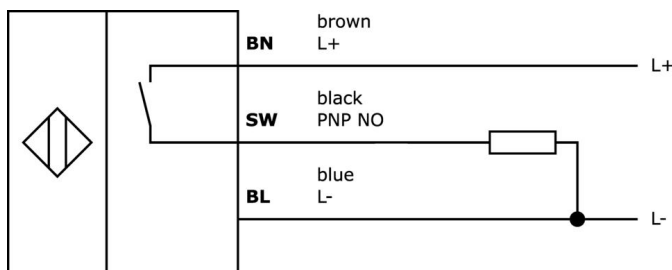
Classification

| | |
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| ETIM 8 | |
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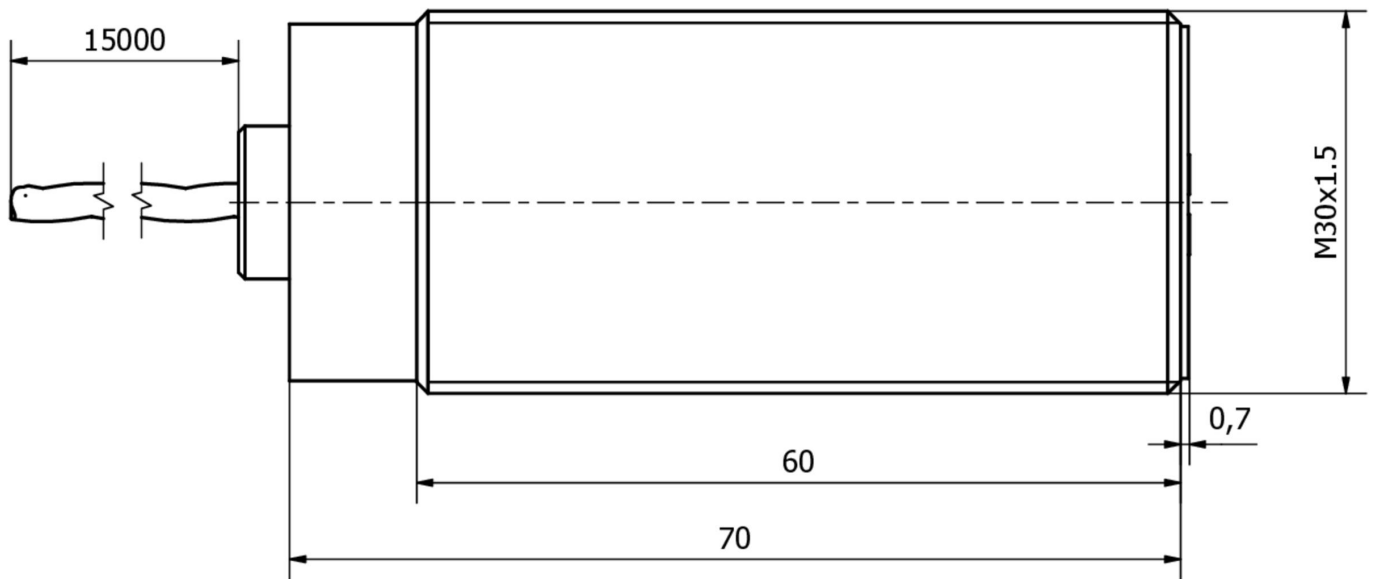
More

| | |
|-----------------------|--|
| IPF Product Group | 202 inductive sensors (high temperature) |
| packaging dimensions | 205 x 125 x 89 mm |
| gross weight | |
| Customs tariff number | 85365019 |
| WEEE number | 40951076 |
| Reach-compliant | Yes |
| RoHS-compliant | Yes |

Connection



Dimensional drawing



Extract accessories program

VY000004



DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

AY000162



Accessories, magnetic, Ø43mm, neodymium-iron-boron, inside thread M5, rubber

AY000159



Accessories sensor, mounting tube, Ø12mm 200long, aluminum anodized/anodized

AY000141



Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

NG400501



DC power supply, 1-phase, 125x114x40mm, 24-28V, 5A, 90-264V AC 50Hz, 90-264V AC 60Hz, 127-370V DC, screw connection, IP20, aluminum, stabilized, pulsed output voltage

AY000129



Accessories, magnetic, Ø66mm, neodymium-iron-boron, inside thread M6, rubber

AY000144



Accessories sensor, Adapter plate, 3x30x85mm, Stainless steel 1.4305

AY000027



Accessories, Hexagon nut, M30x1.5, Wrench size 36mm, Brass Nickel-plated

AY000101



Accessories sensor, Mounting angle bracket, 58x28x58mm, Toothed washer for sensor, bracket, Stainless steel

You can find further accessories on our homepage



Installation

Mounting / installation may only be carried out by a qualified electrician!



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

Safety warnings

- / Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.
- / Never use these devices in applications where the safety of a person depends on their functionality.