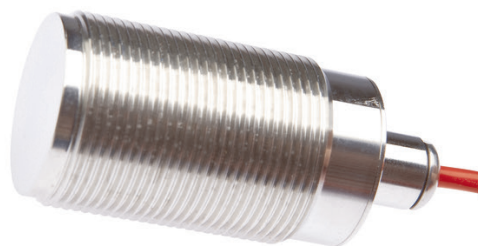


IC3001K2

INDUCTIVE SENSORS • FULL-METAL HOUSING

Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. dampers), counting (e.g. nuts /bolts), speed detection (e.g. for cog wheels), on conveyor systems (e.g. hose feedings) or distance measurements (e.g. press-in checking) of metallic objects.



MECHANICAL DATA

| | |
|--|------------------------|
| Active area material of sensor | Stainless steel 1.4404 |
| Ambient temperature | -10 °C ... 110 °C |
| Atmospheric-change resistant (temperature cycle) | Yes |
| Cable length | 10 m |
| Degree of protection (IP) | IP69K |
| Housing design | Cylinder, screw-thread |
| Housing material | Stainless steel 1.4404 |
| Increased ambient temperatures > 80°C | Yes |
| Material of cable sheath | FEP |
| Mechanical mounting condition for sensor | Flush |
| Number of wires | 3 |
| Pressure-proof | No |
| Sensor length | 66 mm |
| Thread length | 39.5 mm |
| Thread pitch | 1.5 mm |
| Thread size, metric | 30 |
| Wire cross section | 0.34 mm ² |

ELECTRICAL DATA

| | |
|-------------------------------|---------------|
| Cascadable | No |
| IO-Link compatible | No |
| Max. output current | 250 mA |
| No-load current | 5 mA |
| Norm measuring plate | 30x30x1 |
| Reverse polarity protection | Yes |
| Short-circuit-proof | Yes |
| Suitable for safety functions | No |
| Supply voltage | 10 V ... 30 V |
| Switching distance | 10 mm |
| Switching frequency | 150 Hz |
| Type of electrical connection | Cable |

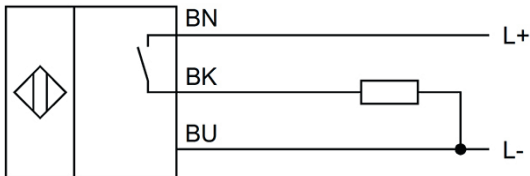
ELECTRICAL DATA

| | |
|--|-----------------------|
| Type of switching function | Normally open contact |
| Type of switching output | PNP |
| Voltage drop | 1.5 V |
| Voltage type | DC |
| With monitoring function of downstream devices | No |

OTHER DATA

| | |
|--------------------------------|-----|
| Feeding technology | Yes |
| Harsh environmental conditions | Yes |
| Hygienic and wet area | Yes |
| Metallic sensor surface | Yes |
| Oil and cooling lubricants | Yes |

CONNECTION



Colors: BN (brown), BU (blue), BK (black)

Functions: BN = L+, BU = L-, BK = PNP NO

DIMENSIONAL DRAWING

INSTALLATION



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

DISPOSAL



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!