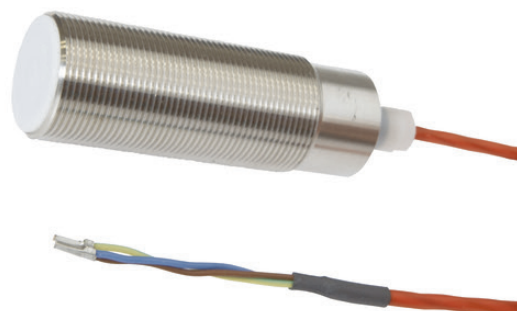


IB3041K0

INDUCTIVE SENSORS • ATMOSPHERIC-CHANGE RESISTANT

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 | PTFE |
| Ambient temperature (MAX) | 120 °C |
| Ambient temperature (MIN) | -25 °C |
| Atmospheric-change resistant (temperature cycle) | Yes |
| Cable length | 2 m |
| Degree of protection (IP) | IP69K |
| Housing design | Cylinder, screw-thread |
| Housing material | Stainless steel 1.4571 |
| 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 | 100 mm |
| Thread length | 65 mm |
| Thread pitch | 1.5 mm |
| Thread size, metric | 30 |
| Wire cross section | 0.75 mm ² |

ELECTRICAL DATA

| | |
|-------------------------------|---------|
| Cascadable | No |
| Hysteresis | 10 % |
| Max. output current | 400 mA |
| Min. output current | 5 mA |
| No-load current | 2.5 mA |
| Norm measuring plate | 30x30x1 |
| Relative repeat accuracy | 3 % |
| Reverse polarity protection | Yes |
| Suitable for safety functions | No |
| Switching distance | 10 mm |
| Switching frequency | 25 Hz |

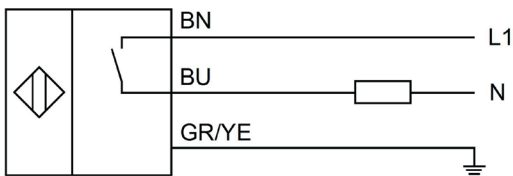
ELECTRICAL DATA

| | |
|--|-----------------------|
| Type of electrical connection | Cable |
| Type of switching function | Normally open contact |
| Type of switching output | Two-wire |
| Voltage drop | 5 V |
| Voltage type | AC |
| With LED display | Yes |
| With monitoring function of downstream devices | No |

OTHER DATA

| | |
|----------------------------|-----|
| Hygienic and wet area | Yes |
| Oil and cooling lubricants | Yes |

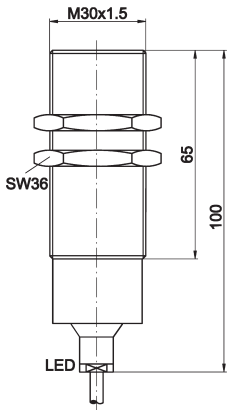
CONNECTION



Colors: BN (brown), BU (blue), GN/YE (green/yellow)

Functions: BN = L+, BU = L-, GN/YE = PE

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!

Never use these devices in applications where the safety of a person depends on their functionality.