

IB125200

INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

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 | PBT |
| Ambient temperature (MAX) | 70 °C |
| Ambient temperature (MIN) | -25 °C |
| Cable length | 2 m |
| Degree of protection (IP) | IP67 |
| Housing coating | Nickel-plated |
| Housing design | Cylinder, screw-thread |
| Housing material | Brass |
| Material of cable sheath | PVC |
| Mechanical mounting condition for sensor | Flush |
| Number of wires | 2 |
| Pressure-proof | No |
| Sensor length | 70 mm |
| Thread pitch | 1 mm |
| Thread size, metric | 12 |
| Wire cross section | 0.5 mm ² |

ELECTRICAL DATA

| | |
|-------------------------------|-----------------|
| Cascadable | No |
| Max. output current | 300 mA |
| Min. output current | 2 mA |
| Norm measuring plate | 12x12x1 |
| Relative repeat accuracy | 5 % |
| Suitable for safety functions | No |
| Supply voltage (MAX) | 250 V |
| Supply voltage (MIN) | 20 V |
| Switching distance | 2 mm |
| Switching frequency | 30 Hz |
| Type of electrical connection | Cable |
| Type of switching function | Breaker contact |
| Type of switching output | Two-wire |

ELECTRICAL DATA

Voltage drop

5 V

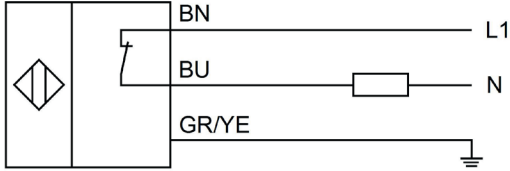
Voltage type

AC/DC

With monitoring function of downstream devices

No

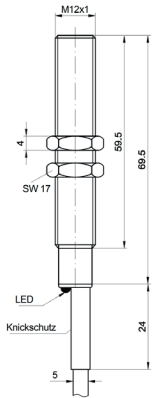
CONNECTION



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.