

IB400100

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 | -25 °C ... 70 °C |
| Degree of protection (IP) | IP68 |
| Housing design | Cuboid |
| Housing material | PBT |
| Mechanical mounting condition for sensor | Flush |
| Pressure-proof | No |
| Sensor height | 40 mm |
| Sensor length | 118 mm |
| Sensor width | 40 mm |

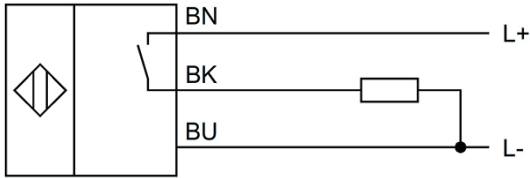
ELECTRICAL DATA

| | |
|-----------------------------------|-----------------------|
| Cascadable | No |
| Correction factor (aluminum) | 0.3 |
| Correction factor (copper) | 0.25 |
| Correction factor (St37) | 1 |
| Correction factor (stainl. steel) | 0.75 |
| Hysteresis | 5 % |
| IO-Link compatible | No |
| Max. output current | 200 mA |
| No-load current | 10 mA |
| Reverse polarity protection | Yes |
| Short-circuit-proof | Yes |
| Suitable for safety functions | No |
| Supply voltage | 10 V ... 30 V |
| Switching distance | 15 mm |
| Switching frequency | 150 Hz |
| Type of electrical connection | Clamp |
| Type of switching function | Normally open contact |
| Type of switching output | PNP |
| Voltage drop | 2.8 V |

ELECTRICAL DATA

| | |
|--|-----|
| Voltage type | DC |
| With LED display | Yes |
| With monitoring function of downstream devices | No |

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!