

IBQ50106

Inductive sensors • Norm switching distance

sensor inductive, 25x5x5mm, Flush, Sn: 1.5, 10-30V DC, PNP NO, IO-Link, Cable 2m PUR (Polyurethane), IP67, Brass Chrome-plated

including 2x Screw



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.

Electrical features

| | |
|-------------------------------|----------------------------|
| Display | LED display |
| Type of switching function | Normally open contact (NO) |
| Type of electrical connection | Cable |
| Type of switching output | PNP |
| Rated switching current | 200mA |
| Relative hysteresis | 10% |
| Short-circuit protection | Yes |
| No-load current | 10mA |
| Line diameter | 2.6mm |
| Switching distance | 1,5mm |
| Switching frequency | 5000Hz |
| Voltage drop | 2V |
| Reverse polarity protection | Yes |
| Operating voltage (DC) | 10 - 30V |

Mechanical features

| | |
|--|---------------|
| Number of cores | 3 |
| Design | Cuboid |
| Width | 5mm |
| Height | 25mm |
| Cable length | 2m |
| Cable infeed | axial |
| Length | 5mm |
| Maximum tightening torque | 0.2Nm |
| Mechanical mounting condition for sensor | flush |
| Surface | Chrome-plated |
| Degree of protection (IP) | IP67 |
| Active area material of sensor | Plastic (PCB) |
| Housing material | Brass |
| Material of cable sheath | Plastic (PUR) |
| Ambient temperature | -25 - 70°C |

Other features

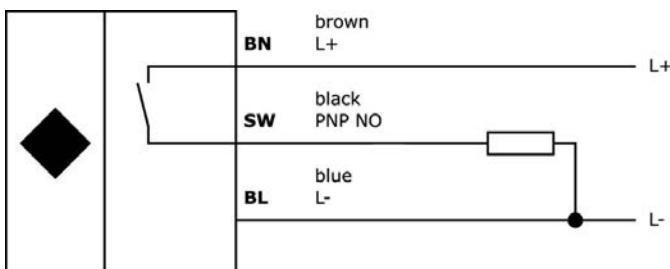
| | |
|---------------------|------------|
| IO-Link version | V1.0.1 |
| Ambient temperature | -25 - 70°C |

Classification

| | |
|--------|-------------------------------------|
| ETIM 8 | EC002714 Inductive proximity switch |
|--------|-------------------------------------|

More

| | |
|-----------------------|---|
| IPF Product Group | 201 inductive sensors (plus / super plus) |
| packaging dimensions | 123 x 77 x 25 mm |
| gross weight | 40 g |
| Customs tariff number | 85365019 |
| WEEE number | 40951076 |
| Reach-compliant | Yes |
| RoHS-compliant | Yes |

Connection**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.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com

Dimensional drawing