AbN
automation

IBR40106

Inductive sensors ● Increased switching distance

sensor inductive, Ø4mm 25long, Flush, Sn: 1.5, 10-30V DC, PNP NO, IO-Link, Cable 5m
PUR (Polyurethane), IP67, V4A

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%
Correction factor (aluminum)	0.4
Correction factor (copper)	0.4
Correction factor (brass)	0.5
Correction factor (St37)	1
Correction factor (stainl. steel)	0.75
Short-circuit protection	Yes
No-load current	10mA
Line diameter	3.5mm
Relative repeat accuracy	2%
Switching distance	1,5mm
Switching frequency	3000Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Alignment of cable entry	axial
Design	Cylinder plain
Diameter	4mm
Cable length	5m
Cable infeed	axial
Length	25mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PA6.6)
Housing material	Stainless steel 1.4401
Material of cable sheath	Plastic (PUR)
Ambient temperature	-25 - 70°C

Other features

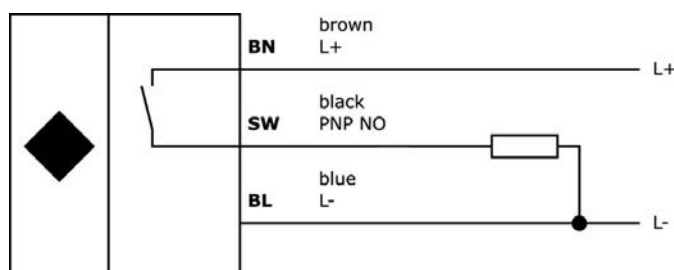|	
IO-Link version	V1.0.1
Reference medium / object	Standard measuring plate FE360 4,5x4,5x1mm
Ambient temperature	-25 - 70°C

Classification

ETIM 8	EC002714 Inductive proximity switch

More

IPF Product Group	201 inductive sensors (plus / super plus)
packaging dimensions	215 x 180 x 25 mm
gross weight	80 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection


```
              brown
BN            L+                          ——— L+

              black
SW            PNP NO            ▭——┐

              blue
BL            L-                ———●——— L-
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Installation

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

Disposal

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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

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