

IBR40181

Inductive sensors • Norm switching distance

sensor inductive, Ø4mm 25long, Flush, Sn: 0.6, 10-30V DC, PNP NO, IO-Link, Cable 2m PUR (Polyurethane), IP68, V2A



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

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)	0.2
Correction factor (copper)	0.15
Correction factor (brass)	0.25
Correction factor (St37)	1
Correction factor (stainl. steel)	0.6
Short-circuit protection	Yes
No-load current	10mA
Line diameter	3.5mm
Relative repeat accuracy	1.67%
Switching distance	0,6mm
Switching frequency	5000Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Alignment of cable entry	axial
Design	Cylinder plain
Pressure resistance	20bar
Diameter	4mm
Cable length	2m
Cable infeed	axial
Length	25mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP68
Active area material of sensor	Sapphire
Housing material	Stainless steel 1.4301
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 4x4x1mm
Ambient temperature	-25 - 70°C

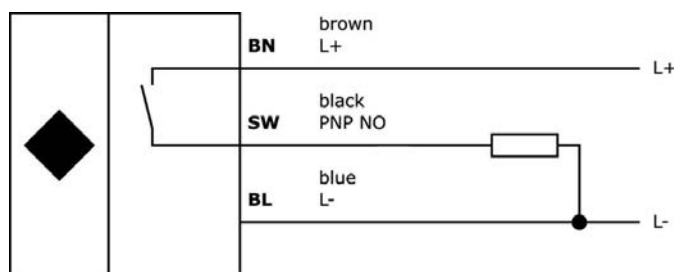
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	210 x 180 x 10 mm
gross weight	38 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