IB040104

Inductive sensors ● Norm switching distance

Sensor inductive, M4x0.5 22long, flush, Sn: 0.6, 10-30V diagnostic coverage, PNP NO, IO-Link, cable 2m PUR (polyurethane), IP67, VA

including 2x Nut, 2x Toothed washer

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	100mA
Relative hysteresis	15%
Correction factor (aluminum)	0.3
Correction factor (copper)	0.2
Correction factor (brass)	0.4
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Short-circuit protection	Yes
No-load current	5.5mA
Line diameter	2.6mm
Relative repeat accuracy	10%
Switching distance	0,6mm
Switching frequency	5000Hz
Voltage drop	1.5V
Reverse polarity protection	Yes
Actuation voltage (DC)	24V
Operating voltage (DC)	10 - 30V

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Mechanical features

Number of cores	3
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	19mm
Thread pitch	0.5mm
Cable length	2m
Cable infeed	axial
Length	22mm
Maximum tightening torque	0.8Nm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PET)
Housing material	Stainless steel
Material of cable sheath	Plastic (PUR)
Thread dimension	M4
Ambient temperature	-25 - 70°C

Other features

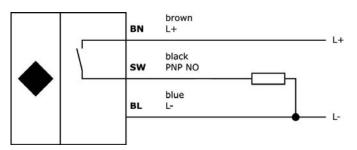|	
IO-Link version	V1.0.1
Reference medium / object	Standard measuring plate FE360 4x4x1mm
Ambient temperature	-25 - 70°C

Classification

ETIM 8	EC002714 Inductive proximity switch

More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	215 x 180 x 5 mm
gross weight	20 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes
MTTF (25°C)	3110 year(s)
MTTF (40°C)	1165 year(s)
MTTF (70°C)	185 year(s)

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

ipf electronic gmbh | Rosmarter Allee 14 ● 58762 Altena - Germany | Tel +49 2351 9365-0 ● info@ipf-electronic.com ● **www.ipf-electronic.com**

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