

IB180006

Inductive sensors • Distance measurement

sensor inductive, analog, M18x1 50long, Quasi-flat, Sn: 0-10, 15-30V DC, 0-10V/4-20mA, Cable 2m PUR (Polyurethane), IP67, Brass Chrome-plated, resolution 5µm

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

Resolution	0.005mm
Type of analog output	0 - 10V 4 - 20mA
Type of electrical connection	Cable
Readiness delay	50ms
Correction factor (aluminum)	0.2
Correction factor (copper)	0.17
Correction factor (brass)	0.3
Correction factor (St37)	1
Correction factor (stainl. steel)	0.65
Short-circuit protection	Yes
No-load current	12mA
Line diameter	5mm
Reverse polarity protection	Yes
Absolute repeat accuracy	0.3mm
Operating voltage (DC)	15 - 30V
Measuring range	0 - 10mm

Mechanical features

Number of cores	4
Design	Cylinder, screw-thread
Thread pitch	1mm
Cable length	2m
Cable infeed	axial
Length	50mm
Mechanical mounting condition for sensor	semi-flush
Surface	Chrome-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBTP)
Housing material	Brass
Material of cable sheath	Plastic (PUR)
Thread dimension	M18
Ambient temperature	-25 - 70°C

Other features

Ambient temperature	-25 - 70°C
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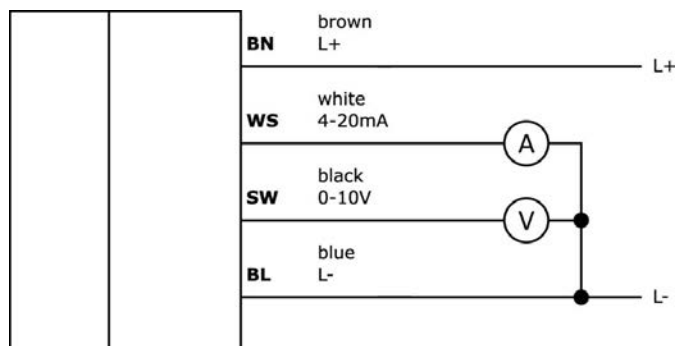
Classification

ETIM 8	EC001818 Inductive distance sensor
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More

IPF Product Group	209 inductive sensors (analog)
packaging dimensions	215 x 180 x 25 mm
gross weight	123 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.

Dimensional drawing