

IB120189

Inductive sensors • welding-proof

sensor inductive, M12x1 50long, Flush, Sn: 3.5, 10-30V DC, -25-85°C, PNP NO,
Connector M12 3pin, IP67, V2A Teflon coated, welding-proof, factor 1

including 2x Nut



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	Connector M12
Type of switching output	PNP
Rated switching current	200mA
Relative hysteresis	15%
Correction factor (aluminum)	1
Correction factor (copper)	1
Correction factor (brass)	1
Correction factor (St37)	1
Correction factor (stainless steel V2A: 1mm)	1
Correction factor (stainless steel V2A: 2mm)	1
Correction factor (stainl. steel)	1
Short-circuit protection	Yes
No-load current	20mA
Number of pins	3
Switching distance	3,5mm
Switching frequency	20000Hz
Voltage drop	2.5V
Interference resistance to magnetic fields	Immune against magnetic AC-field
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	29mm
Thread pitch	1mm
Cable infeed	axial
Length	50mm
Mechanical mounting condition for sensor	flush
Surface	teflon coated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	Stainless steel 1.4301
Material independent sensors (factor 1)	Yes
Thread dimension	M12
Ambient temperature	-25 - 85°C

Other features

Welding area	Yes
Reference medium / object	Standard measuring plate FE360 12x12x1mm
Ambient temperature	-25 - 85°C

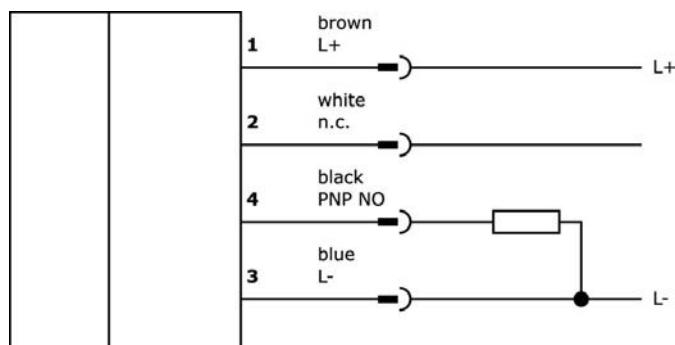
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	207 inductive sensors (welding proof)
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.