

IB089179

Inductive sensors • welding-proof

Sensor inductive, M8x1 40long, flush, Sn: 3, 10-30V diagnostic coverage, -40-85°C, PNP NO, M8 plug connector 3-pin, IP69K, V4A, welding proof, factor 1

including 2x Nut



Inductive proximity switches are contactless sensors. They detect all conductive metals, irrespective of whether they are moving or not. The achievable switching distance of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached from the side or front. Inductive proximity switches are used for presence detection (e.g. product carriers), positioning (e.g. furnace hatches), counting (e.g. nuts / bolts), speed detection (e.g. on toothed wheels), on conveyor systems (e.g. hose feeds) or for distance measurements (e.g. press-in checks) of metallic objects.

Electrical features

Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	100mA
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	3mm
Switching frequency	2000Hz
Voltage drop	2.5V
Interference resistance to magnetic fields	Immune against magnetic DC-field
Reverse polarity protection	No
Operating voltage (DC)	10 - 30V
Magnetic field resistant	Yes

Mechanical features

Tightening torque	5Nm
Design	Cylinder, screw-thread
Thread length	28mm
Thread pitch	1mm
Cable infeed	axial
Length	40mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP69K
Active area material of sensor	Plastic (LCP)
Housing material	Stainless steel 1.4404
Material independent sensors (factor 1)	Yes
Thread dimension	M8
Ambient temperature	-40 - 85°C

Other features

Welding area	Yes
Ambient temperature	-40 - 85°C

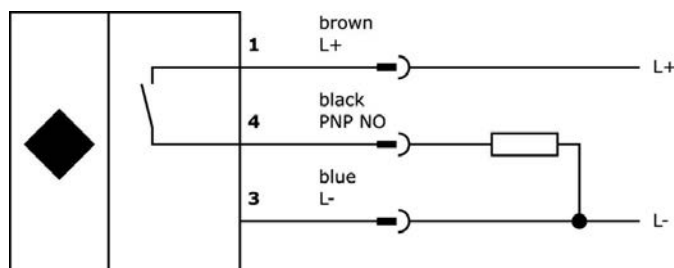
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	207 inductive sensors (welding proof)
packaging dimensions	220 x 150 x 10 mm
gross weight	17 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
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