

IC210206

Inductive sensors • Full-metal housing

sensor inductive, all-steel, 8x32x20mm, Flush, Sn: 7, 10-30V DC, -25-85°C, PNP NC, Cable 3pin 2m PVC, IP69K, Stainless steel 1.4435, factor 1



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 closed contact (NC)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	200mA
Relative hysteresis	15%
Correction factor (aluminum)	1
Correction factor (copper)	0.8
Correction factor (brass)	1.2
Correction factor (St37)	1
Correction factor (stainless steel V2A: 1mm)	0.5
Correction factor (stainless steel V2A: 2mm)	0.85
Short-circuit protection	Yes
No-load current	10mA
Line diameter	5mm
Max. line length	300m
Number of pins	3
Relative repeat accuracy	4.5%
Residual ripple	20%
Switching distance	7mm
Switching frequency	180Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Design	Cuboid
Width	20mm
Height	8mm
Cable length	2m
Cable infeed	axial
Length	32mm
Material thickness	0.7mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP69K
Active area material of sensor	Stainless steel 1.4435
Housing material	Stainless steel 1.4435
Material of cable sheath	Plastic (PVC)
Material independent sensors (factor 1)	Yes
Ambient temperature	-25 - 85°C

Other features

Harsh environmental conditions	Yes
Feeding technology	Yes
Oil and cooling lubricants	Yes
Reference medium / object	Standard measuring plate FE360 21x21x1mm
Ambient temperature	-25 - 85°C

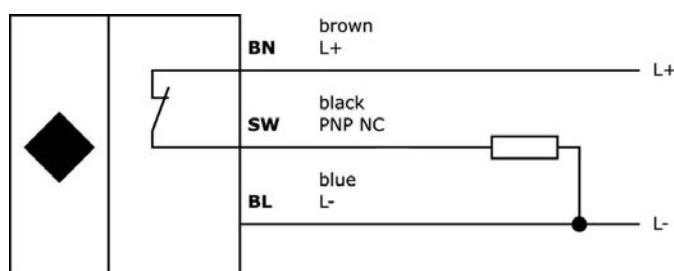
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	205 inductive sensors (pro)
packaging dimensions	215 x 180 x 8.5 mm
gross weight	54 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

