AbN
automation

IB081100

Inductive sensors ● Norm switching distance

sensor inductive, M8x1 50long, Flush, Sn: 1.5, 10-30V DC, NPN NO, Cable 2m PVC, IP67, Stainless steel 1.4305

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	Cable
Type of switching output	NPN
Rated switching current	200mA
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	15mA
Relative repeat accuracy	10%
Switching distance	1,5mm
Switching frequency	1000Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Number of cores	3
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	40mm
Thread pitch	1mm
Cable length	2m
Cable infeed	axial
Length	50mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	Stainless steel 1.4305
Material of cable sheath	Plastic (PVC)
Thread dimension	M8
Ambient temperature	-25 - 70°C

Other features

Reference medium / object	Standard measuring plate FE360 8x8x1mm
Ambient temperature	-25 - 70°C

Classification

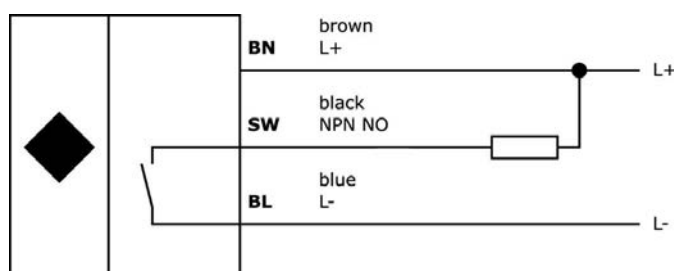|	
ETIM 8	EC002714 Inductive proximity switch

More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	123 x 77 x 25 mm
gross weight	60 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.

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3