

IB500151

Inductive sensors • Increased ambient temperature

sensor inductive, M50x1.5 70long, Flush, Sn: 20, 10-35V DC, 0-180°C, PNP NO, Cable 5m Silicone, IP65, Stainless steel 1.4305



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

Response/decay time	5ms
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	150mA
Readiness delay	10ms
Relative hysteresis	15%
Short-circuit protection	Yes
No-load current	15mA
Line diameter	4.6mm
Relative repeat accuracy	3%
Residual ripple	10%
Switching distance	20mm
Switching frequency	100Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35V

Mechanical features

Conductor cross-section	0.25mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	60mm
Thread pitch	1.5mm
Cable length	5m
Cable infeed	axial
Length	70mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP65
Active area material of sensor	Plastic (Vectra®)
Housing material	Stainless steel 1.4305
Material of cable sheath	Silicone
Thread dimension	M50
Ambient temperature	0 - 180°C

Other features

Reference medium / object	Standard measuring plate FE360 50x50x1mm
Ambient temperature	0 - 180°C

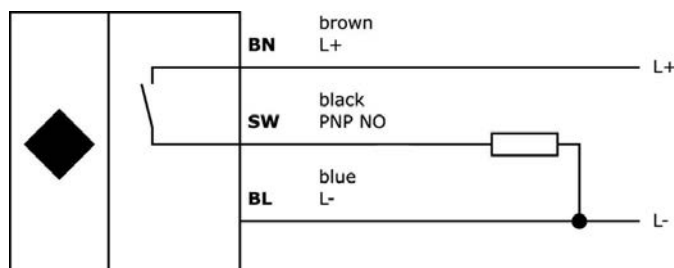
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	202 inductive sensors (high temperature)
packaging dimensions	205 x 125 x 89 mm
gross weight	584 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