

IB05010H

Inductive sensors • Increased switching distance

sensor inductive, M5x0.5 25long, Quasi-flat, Sn: 2.5, 10-30V DC, PNP NO, Cable 2m PVC, IP67, Nickel silver

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	PNP
Rated switching current	200mA
Readiness delay	30ms
Relative hysteresis	8%
Correction factor (aluminum)	0.33
Correction factor (copper)	0.3
Correction factor (brass)	0.42
Correction factor (St37)	1
Correction factor (stainl. steel)	0.67
Short-circuit protection	Yes
No-load current	10mA
Line diameter	2.6mm
Relative repeat accuracy	1.2%
Residual ripple	20%
Switching distance	2,5mm
Switching frequency	800Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Number of cores	3
Conductor cross-section	0.14mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Diameter	5mm
Thread length	20mm
Thread pitch	0.5mm
Cable length	2m
Cable infeed	axial
Length	25mm
Maximum tightening torque	1.5Nm
Mechanical mounting condition for sensor	semi-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PPE)
Housing material	Nickel silver
Material of cable sheath	Plastic (PVC)
Thread dimension	M5
Ambient temperature	-25 - 70°C

Other features

Reference medium / object	Standard measuring plate FE360 7,5x7,5x1mm
Ambient temperature	-25 - 70°C

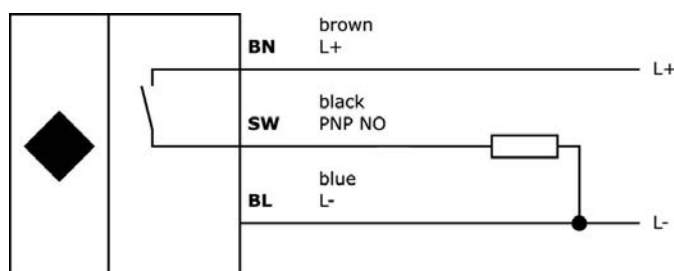
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	201 inductive sensors (plus / super plus)
packaging dimensions	215 x 180 x 8 mm
gross weight	50 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

