

IB185100

Inductive sensors • Norm switching distance

sensor inductive, M18x1 60long, Flush, Sn: 5, 20-250V AC/DC, Two-wire NO, Cable 2m PVC, IP67, Brass Nickel-plated

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

Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	Two-wire
Rated switching current	350mA
Relative hysteresis	15%
No-load current	2mA
Line diameter	5mm
Relative repeat accuracy	10%
Switching distance	5mm
Switching frequency	30Hz
Voltage drop	5V
Min. output current	2mA
Operating voltage (AC 50Hz)	20 - 250V
Operating voltage (DC)	20 - 250V

Mechanical features

Number of cores	2
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	50mm
Thread pitch	1mm
Cable length	2m
Cable infeed	axial
Length	60mm
Mechanical mounting condition for sensor	flush
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PA6.6)
Housing material	Brass
Material of cable sheath	Plastic (PVC)
Thread dimension	M18
Ambient temperature	-25 - 70°C

Other features

Reference medium / object	Standard measuring plate FE360 18x18x1mm
Ambient temperature	-25 - 70°C

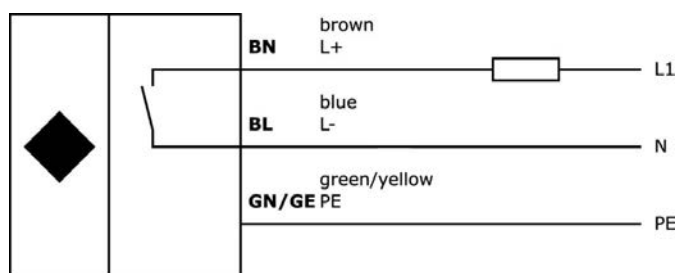
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	125 x 70 x 40 mm
gross weight	162 g
Customs tariff number	85365080
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

