

IB080100

Inductive sensors • Norm switching distance

Sensor inductive, M8x1 50long, flush, Sn: 1.5, 10-30V diagnostic coverage, PNP NO, cable 2m PVC, IP67, stainl. steel

including Sealing ring, Nut



Inductive sensors detect conductive metals at short distances and are not affected by other materials, making them the first choice for use in soiling areas and other harsh environmental conditions. This sensor, manufactured in accordance with EN 60947-5-2, is suitable for all standard applications. The switching distance is set at the factory using a norm measuring plate, the edge length of which corresponds to the diameter of the sensor surface. In accordance with the aforementioned standard, the flush-mountable IB080100 sensor achieves a switching distance of 1.5mm. Its cylindrical housing is made of stainless steel 1.4305 and also has an M8x1mm thread cut into it. The electrical connection is made via a 3-wire 2m connection cable.

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
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
Line diameter	3.5mm
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
Conductor cross-section	0.14mm ²
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
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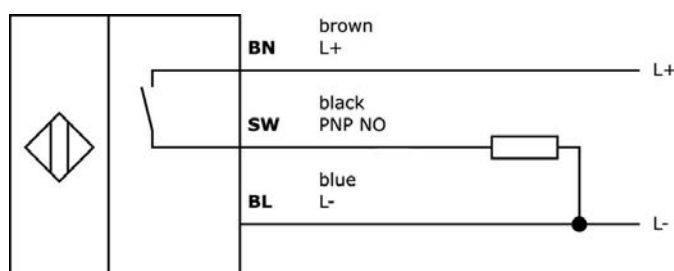
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	200 inductive sensors
packaging dimensions	120 x 100 x 17 mm
gross weight	50 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.

Dimensional drawing

