

IB080100

Inductive sensors • Norm switching distance

Sensor inductive, M8x1 50long, flush, Sn: 1.5, 10-30V DC, 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 1.5 mm. 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	200 mA
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	15 mA
Relative repeat accuracy	10 %
Switching distance	1,5 mm
Switching frequency	1000 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30 V

Mechanical features

Number of cores	3
Conductor cross-section	0.14 mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	40 mm
Thread pitch	1 mm
Cable length	2 m
Cable infeed	axial
Length	50 mm
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
Line diameter	3.5 mm

Other features

Reference medium / object	Standard measuring plate FE360 8x8x1mm
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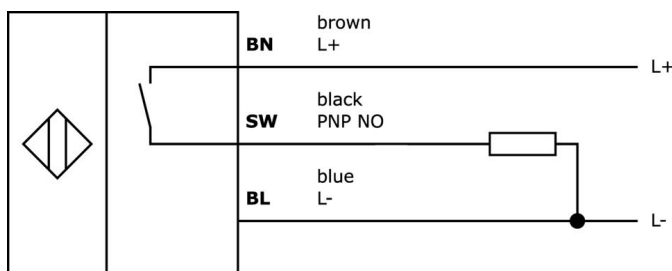
Classification

ETIM 8	EC002714 Inductive proximity switch
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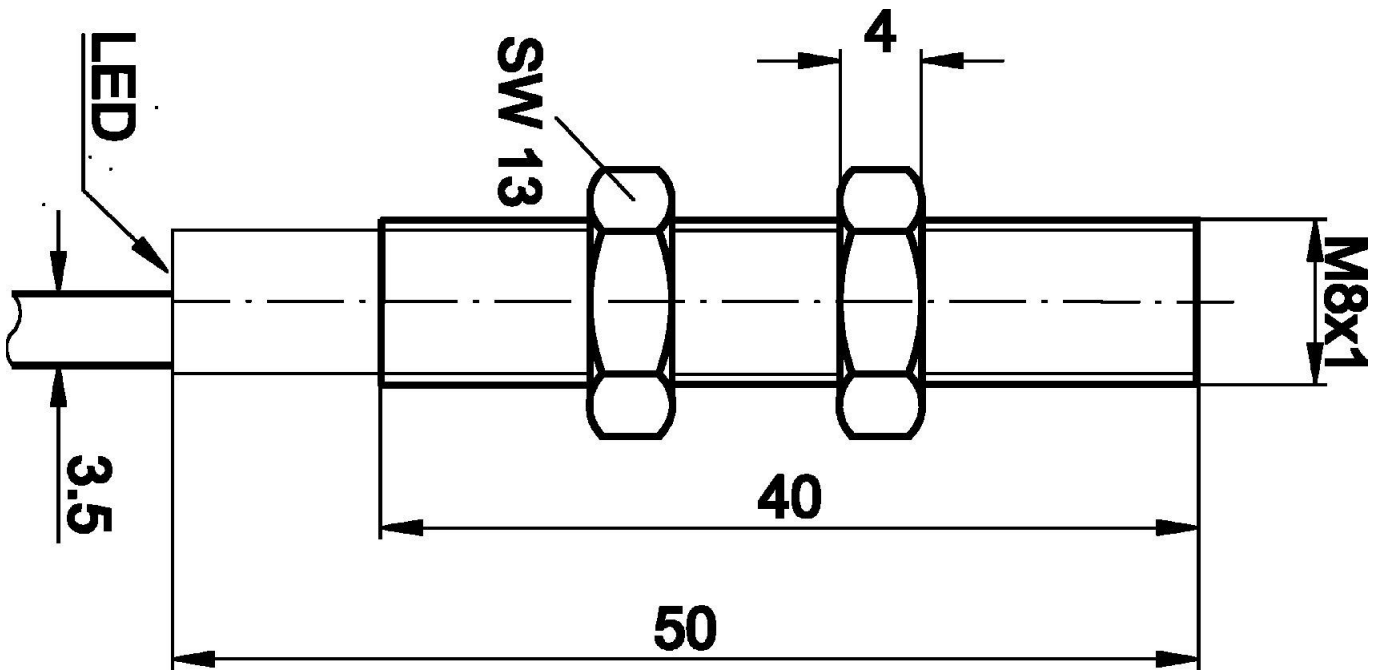
More

IPF Product Group	200 inductive sensors
packaging dimensions	150 x 200 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



Dimensional drawing



Extract accessories program

NG530002



DC power supply, single-phase, 99x114x22mm, 24V, 0.1A, Number of relay outputs 2, 100-264V AC 50Hz, 100-264V AC 60Hz, Screw connection, IP20, Plastic, Stabilized, Output voltage, pulsed

NG400501



DC power supply, 1-phase, 125x114x40mm, 24-28V, 5A, 90-264V AC 50Hz, 90-264V AC 60Hz, 127-370V DC, screw connection, IP20, aluminum, stabilized, pulsed output voltage

AY000115



accessories sensor, Fixture kit, Metal, ball joint

AY000162



Accessories, magnetic, Ø43mm, neodymium-iron-boron, inside thread M5, rubber

AY000159



accessories sensor, Mounting pipe, Ø12mm 200long, Aluminum Anodised

AY000155



accessories sensor, Clamp sleeve, M12x1 32long, Brass White bronze

AY000142



accessories, Hexagon nut, M8x1, Wrench size 10mm, Stainless steel

AY000010



accessories sensor, Ø8mm, Aluminum, For sensor 8mm, for Wall mounting, Screw mounting

VY000004



DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

You can find further accessories on our homepage



Installation

Mounting / installation may only be carried out by a qualified electrician!



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

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.