IB080200

Inductive sensors ● Norm switching distance

sensor inductive, M8x1 50long, Flush, Sn: 1.5, 10-30V DC, PNP NC, Cable 2m PVC, IP67, Stainless steel 1.4305

including Nut

The IB080200 inductive sensor recognizes conductive metals at short distances and is not affected by other materials. It is particularly suitable for use in soiling areas and harsh environmental conditions. The sensor is manufactured in accordance with EN 60947-5-2 standards and is suitable for all standard applications.

The switching distance of the sensor is set at the factory using a norm measuring plate whose edge length corresponds to the diameter of the sensor surface. In accordance with the standard, the IB080200 flush-mounted sensor achieves a switching distance of 1.5mm. The housing of the sensor is made of stainless steel 1.4305 and has an additional M8x1mm thread. The electrical connection is made via a 3-wire 2m connection cable.

Electrical features

Display	LED display
Type of switching function	Normally closed contact (NC)
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
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

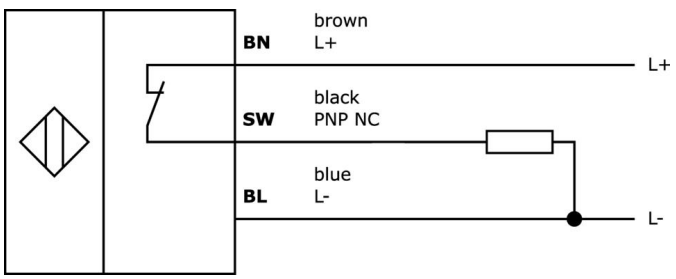
Classification

ETIM 8	EC002714 Inductive proximity switch

More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	123 x 77 x 25 mm
gross weight	42 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

AY000141

Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

VK003026

Cable connector, Angular, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Male (connector) 4pin, IP67, PBT

VK003028

Cable connector, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Male (connector) 4pin, IP67, PBT

VK003076

Cable connector, Angular, Suitable for self-assembly, Soldering connection, 4A, 60V, -40-85°C, M8 Male (connector) 3pin, IP67, Brass

VK003078

Cable connector, Straight, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 60V, -40-85°C, M8 Male (connector) 3pin, IP67, Brass

VK003079

Cable connector, Straight, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 30V, -40-85°C, M8 Male (connector) 4pin, IP67, Brass

VK003179

Cable connector, Straight, Suitable for self-assembly, Screw connection, Ø3.5-5mm, 4A, 30V, -40-85°C, M8 Male (connector) 4pin, IP67, Brass

AY000115

accessories sensor, Fixture kit, Metal, ball joint

AY000162

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

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.