

IB081174

Inductive sensors • Norm switching distance

sensor inductive, M8x1 45long, Flush, Sn: 1.5, 10-30V DC, NPN NO, Connector M8 3pin, IP67, Stainless steel 1.4305

including Nut



The IB081174 is an inductive sensor that recognizes conductive metals at short distances and is not affected by other materials. This makes it particularly suitable for use in soiling and harsh environmental conditions. The sensor is manufactured in accordance with EN 60947-5-2 and is suitable for standard applications. The switching distance 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 flush-mounted sensor achieves a switching distance of 1.5 mm. The cylindrical housing of the sensor is made of stainless steel 1.4305 and has an M8x1mm thread. The electrical connection is made via a 3-pin M8 plug connector.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M8
Type of switching output	NPN
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
Number of pins	3
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

Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	31 mm
Thread pitch	1 mm
Cable infeed	axial
Length	45 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
Thread dimension	M8
Ambient temperature	-25 - 70 °C

Other features

Reference medium / object	Standard measuring plate FE360 8x8x1mm
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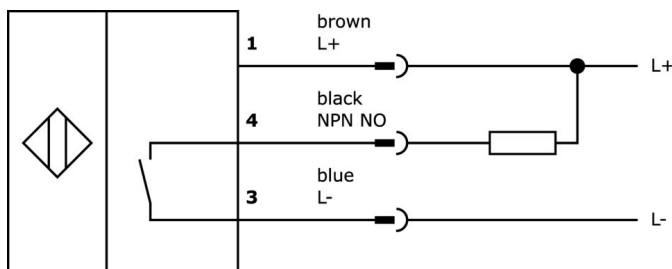
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	120 x 100 x 13 mm
gross weight	13 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

VK000036



Adaption, M8 Female (socket) 3pin Straight, M12 Male (connector) 3pin Straight, 24V, - 25-85°C, IP67, Oil and cooling lubricants, Welding area

AY000155



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

VK030F70



Connection cable, 0.3m, M8 socket 3-pin angular, M8 connector 3-pin straight, 3x0.34mm², PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F74



Connection cable, 0.3m, M8 socket 3-pin straight, M8 connector 3-pin straight, 3x0.34mm², PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

AY000115



accessories sensor, Fixture kit, Metal, ball joint

AY000162



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

VK200071



Connection cable, 2m, M8 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 60V, - 40-90°C, IP67, TPU, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200075



Connection cable, 2m, M8 female (socket) 3pin Straight, free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 60V, - 30-90°C, IP67, suitable for trailing chain and torsion resistant, oil and cooling lubricants, welding area, Silicone-free

VK003070



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

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.