

IB080174

Inductive sensors • Norm switching distance

Sensor inductive, M8x1 45long, flush, Sn: 1.5, 10-30V DC, PNP NO, M8 plug connector 3-pin, IP67, nickel-plated brass

including Nut



The IB080174 inductive sensor recognizes conductive metals at short distances and is insensitive to other materials, making it ideal for use in soiling and harsh environments. 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 that corresponds to the diameter of the sensor surface. The flush-mounted sensor has a switching distance of 1.5 mm in accordance with the standard. The housing of the sensor is made of brass and has an M8x1mm thread. The sensor is electrically connected via a 3-pin M8 connector.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M8
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
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
Operating voltage (DC)	10 - 30 V
ardSOCA_ElektrischerAnschluss	M8 3-pin plug connector
ardSOCA_Betriebsspannung	10-30VDC
ardTEEL_Schutzfunktionen	Short circuit protection Reverse polarity protection

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
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	Brass
Thread dimension	M8
Ambient temperature	-25 - 70 °C
ardSOCA_Abmessungen	M8x1, 45mm long

Other features

Reference medium / object	Standard measuring plate FE360 8x8x1mm
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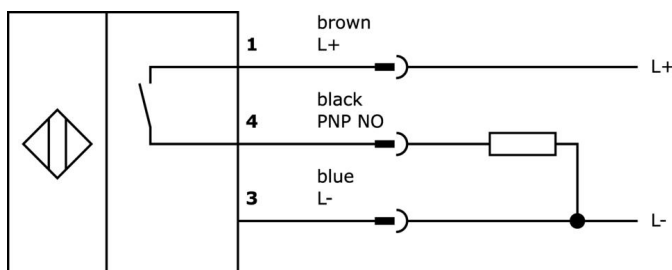
Classification

ETIM 8	EC002714 Inductive proximity switch
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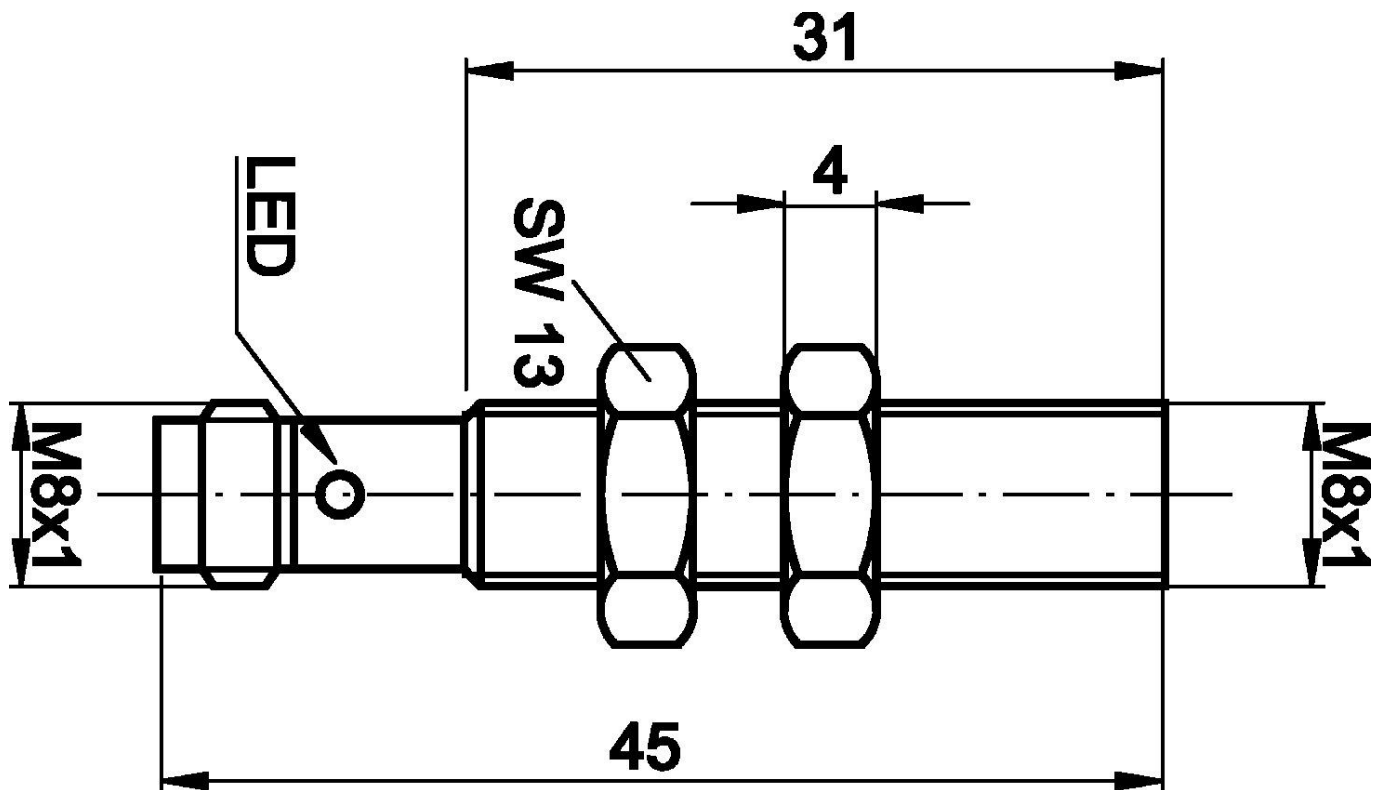
More

IPF Product Group	200 inductive sensors
packaging dimensions	120 x 100 x 17 mm
gross weight	15 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

VK200071



Connection cable, 2m, M8 socket 3-pin angular, free cable end, 3x0.34mm², PUR (polyurethane), Ø4.3mm, 60V, -40-90°C, IP67, TPU, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK200075



Connection cable, 2m, M8 socket 3-pin straight, free cable end, 3x0.34mm², PUR (polyurethane), Ø4.3mm, 60V, -30-90°C, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK200271



Connection cable, 2m, M8 socket 3-pin angular, free cable end, 3x0.34mm², PUR (polyurethane), Ø4.3mm, -30-90°C, IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK500271



Connection cable, 5m, M8 socket 3-pin angular, free cable end 3-pin, 3x0.34mm², PUR (polyurethane), Ø4.3mm, -30-90°C, IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

AY000162



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

AY000159



Accessories sensor, mounting tube, Ø12mm 200long, aluminum anodized/anodized

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

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.