

## IB080274

### Inductive sensors • Norm switching distance

sensor inductive, M8x1.45long, Flush, Sn: 1.5, 10-30V DC, PNP NC, Connector M8 3pin, IP67, Brass Nickel-plated

including Nut, Toothed washer



The IB080274 inductive sensor recognizes conductive metals at short distances and is unaffected by other materials, making it ideal 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 factory-set switching distance is determined using a norm measuring plate that corresponds to the diameter of the sensor surface. The flush sensor achieves a switching distance of 1.5mm in accordance with the standard and has a cylindrical housing made of brass with 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 closed contact (NC)
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
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
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

**Other features**

Reference medium / object	Standard measuring plate FE360 8x8x1mm
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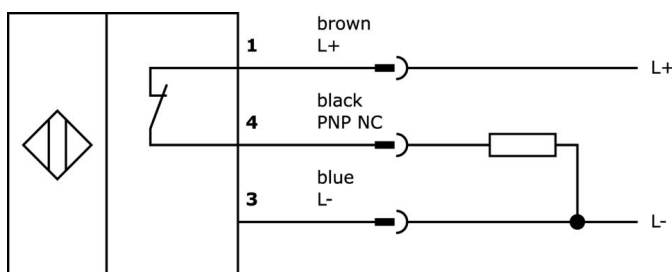
**Classification**

ETIM 8	EC002714 Inductive proximity switch
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**More**

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	120 x 100 x 17 mm
gross weight	14 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**



**Extract accessories program**

**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

**VK200271**



Connection cable, 2m, M8 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm<sup>2</sup>, PUR (Polyurethane), Ø4.3mm, -30-90°C, IP67, With LED display, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silico...

**VK500271**



Connection cable, 5m, M8 Female (socket) 3pin Angular, Free conductor end 3pin, 3x0.34mm<sup>2</sup>, PUR (Polyurethane), Ø4.3mm, -30-90°C, IP67, With LED display, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, S...

**VK200071**



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

**VK030F80**



Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

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.