

## IB120274

### Inductive sensors • Norm switching distance

sensor inductive, M12x1 44long, Flush, Sn: 3, 10-30V DC, PNP NC, Connector M8 3pin, IP67, Brass Nickel-plated

including Nut



The IB120274 inductive sensor was manufactured in accordance with EN 60947-5-2 and is suitable for use in soiling and harsh environmental conditions. It recognizes conductive metals at short distances and is not influenced by other materials.

The sensor has a flush-mountable switching distance of 3 mm in accordance with the standard. Its housing is made of brass and has an M12x1mm thread. The electrical connection is made via a 3-pin M8 plug connector. The switching distance is set at the factory using a norm measuring plate whose edge length corresponds to the diameter of the sensor surface.

Overall, the IB120274 is a robust inductive sensor that is suitable for standard applications and ensures precise metal detection over short distances.

#### 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	3 mm
Switching frequency	800 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	24 mm
Thread pitch	1 mm
Cable infeed	axial
Length	44 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	M12
Ambient temperature	-25 - 70 °C

**Other features**

Reference medium / object	Standard measuring plate FE360 12x12x1mm
---------------------------	--

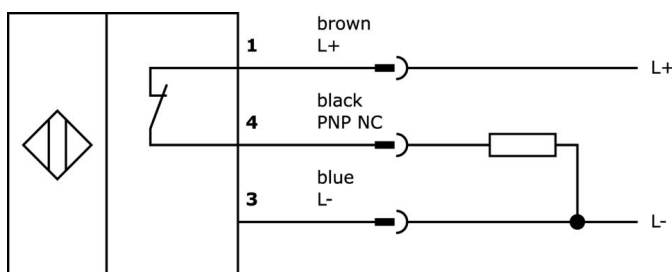
**Classification**

ETIM 8	EC002714 Inductive proximity switch
--------	-------------------------------------

**More**

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	120 x 100 x 17 mm
gross weight	30 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**



**Extract accessories program**

**AY000115**



accessories sensor, Fixture kit,  
Metal, ball joint

**AY000162**



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

**VY000004**



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

**VK000038**



Adaption, M8 Female (socket)  
3pin Straight, M8 Male  
(connector) 4pin Straight, 24V, -  
25-85°C, IP67, Oil and cooling  
lubricants, Welding area

**VK030F82**



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

**VK060F82**



Connection cable, 0.6m, M8  
socket 3-pin angular, M12  
connector 3-pin straight, 3x0.  
34mm<sup>2</sup>, PUR (polyurethane), IP67,  
LED, suitable for trailing chain and  
torsion resistant, oils and cooling  
lubricants, welding area, silicone-  
free

**VK030F70**



Connection cable, 0.3m, M8  
socket 3-pin angular, M8  
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

**VK030F74**



Connection cable, 0.3m, M8  
socket 3-pin straight, M8  
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

**AY000156**



accessories sensor, Clamp sleeve,  
M16x1 31long, Brass White bronze

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.