

## IB080185

### Inductive sensors • Norm switching distance

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

including Nut



The IB080185 inductive sensor is specially designed for use in soiling areas and harsh environmental conditions. It recognizes conductive metals at short distances and is not affected by other materials.

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	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	2000 Hz
Voltage drop	2 V
Operating voltage (DC)	10 - 30 V

**Mechanical features**

Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread pitch	1 mm
Cable infeed	axial
Length	30 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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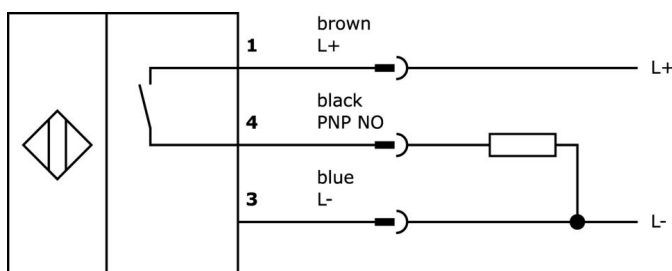
**Classification**

ETIM 8	EC002714 Inductive proximity switch
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**More**

IPF Product Group	200 inductive sensors
packaging dimensions	120 x 100 x 28 mm
gross weight	20 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**



**Extract accessories program**

**AY98C293**



accessories sensor, Teflon cap,  
M8x1 5long,  
Polytetrafluorethylene (PTFE)

**AY000155**



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

**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

**VK003070**



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

**VK003074**



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

**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

**VK030F84**



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

**VK030F72**



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

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.