

IB060185

Inductive sensors • Norm switching distance

Sensor inductive, Ø6.5mm 30long, flush, Sn: 1.5, 10-30V DC, PNP NO, M8 plug connector 3-pin, IP67, stainl. steel



The IB060185 inductive sensor is specially designed for use in soiling areas and harsh environmental conditions. It recognizes conductive metals over short distances and is not affected by other materials.

The sensor complies with the EN 60947-5-2 standard and is suitable for all 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 switching distance of the IB060185 flush sensor is 1.5 mm. The housing of the sensor is made of stainless steel 1.4305 with a cut-in 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	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	Reverse polarity protection Short circuit protection

Mechanical features

Alignment of cable entry	axial
Design	Cylinder plain
Diameter	6.5 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
Ambient temperature	-25 - 70 °C
ardSOCA_Abmessungen	Ø6.5mm, 30mm long

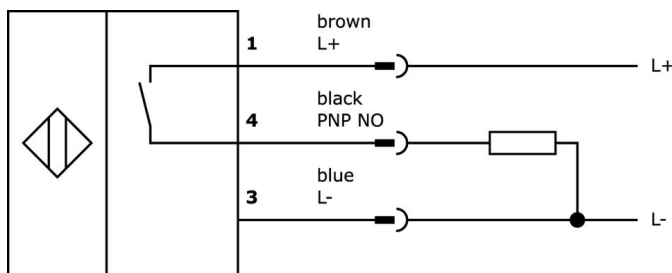
Classification

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	4 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection




Extract accessories program

VK030F82



Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm², 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, 3x0.34mm², PUR (polyurethane), IP67, LED, 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

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

VY030170



time stage, Turn-off delay, 0-0.15s, 10-35V DC, 1x NO, M8 3pin 0.3m, IP67, Plastic, Potentiometer

VY030174



time stage, Turn-off delay, 0-0.15s, 10-35V DC, 1x NO, M8 3pin 0.3m, IP67, Plastic, Potentiometer

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.