

IB060170

Inductive sensors • Norm switching distance

sensor inductive, Ø6,5mm 60long, Flush, Sn: 1.5, 10-30V DC, PNP NO, Connector M8 3pin, IP67, Stainless steel 1.4305



The IB060170 inductive sensor is specially designed for use in soiling environments and other harsh conditions. It recognizes conductive metals at short distances and is not affected by other materials.

This sensor complies 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 sensor IB060170 has a switching distance of 1.5mm.

The housing of the sensor is cylindrical and made of 1.4305 stainless steel. It has a cut-in thread for mounting. 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
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 plain
Diameter	6.5 mm
Cable infeed	axial
Length	60 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

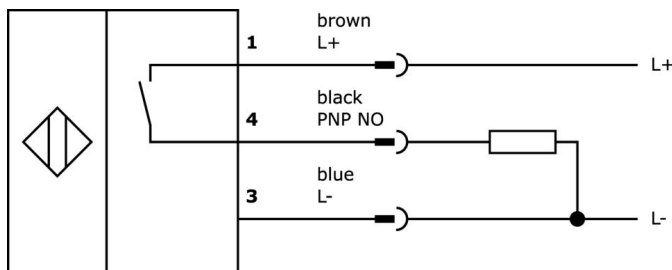
Classification

ETIM 8	EC002714 Inductive proximity switch
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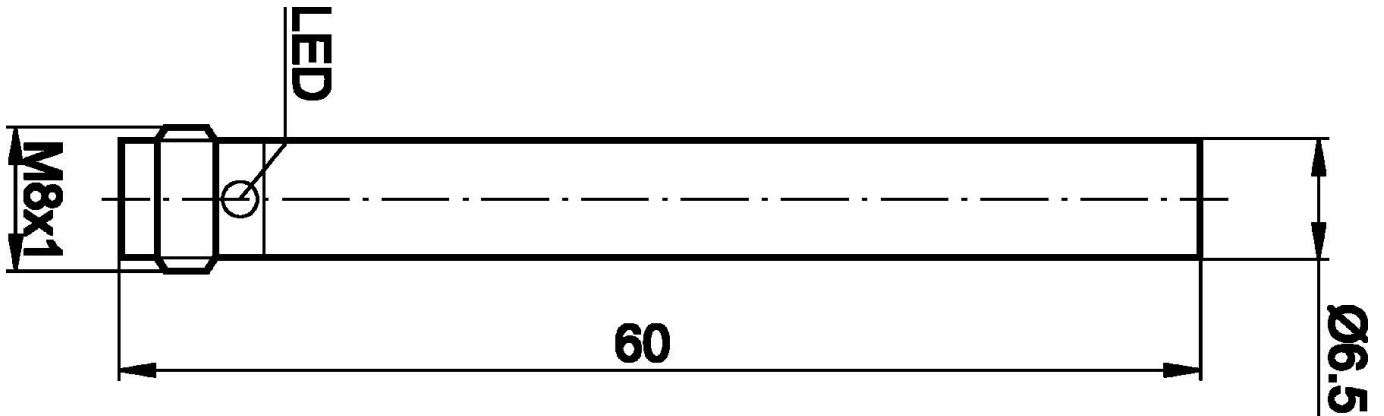
More

IPF Product Group	200 inductive sensors
packaging dimensions	120 x 100 x 17 mm
gross weight	10 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

AY000009



accessories sensor, Ø6mm,
Aluminum, For sensor 6mm, for
Wall mounting, Screw mounting

AY000019



accessories sensor, Ø6,5mm,
Aluminum, For sensor 6.5mm, for
Wall mounting, Screw mounting

AY98C293



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

VK030F72



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

VK060F72



Connection cable, 0.6m, M8
socket 3-pin angular, M8
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

VK030F80



Connection cable, 0.3m, M8
socket 3-pin angular, M12
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

VK030F84



Connection cable, 0.3m, M8
socket 3-pin straight, M12
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

VK200071



Connection cable, 2m, M8 Female
(socket) 3pin Angular, Free
conductor end, 3x0.34mm², 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, 3x0.34mm², PUR
(Polyurethane), Ø4.3mm, 60V, -
30-90°C, IP67, suitable for trailing
chain and torsion resistant, oil 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.