

IA180120

Inductive sensors • Norm switching distance

Sensor inductive, preferential, M18x1 62long, flush, Sn: 5, 10-30V diagnostic coverage, PNP NO, M12 plug connector 3-pin, IP67, nickel-plated brass

including Nut



The IA180120 inductive sensor recognizes conductive metals at short distances and is insensitive to other materials. This makes it ideal for use in soiling and harsh environments. The sensor complies with EN 60947-5-2 and is suitable for standard applications.

The switching distance of the flush sensor is 5mm according to the norm measuring plate with an edge length corresponding to the diameter of the sensor surface. The housing of the sensor is made of brass via an M18x1mm thread. The electrical connection is made via a 3-pin M12 plug connector.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	200mA
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	15mA
Number of pins	3
Relative repeat accuracy	10%
Switching distance	5mm
Switching frequency	500Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	35mm
Thread pitch	1mm
Cable infeed	axial
Length	62mm
Mechanical mounting condition for sensor	flush
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PA6.6)
Housing material	Brass
Thread dimension	M18
Ambient temperature	-25 - 70°C

Other features

Reference medium / object	Standard measuring plate FE360 18x18x1mm
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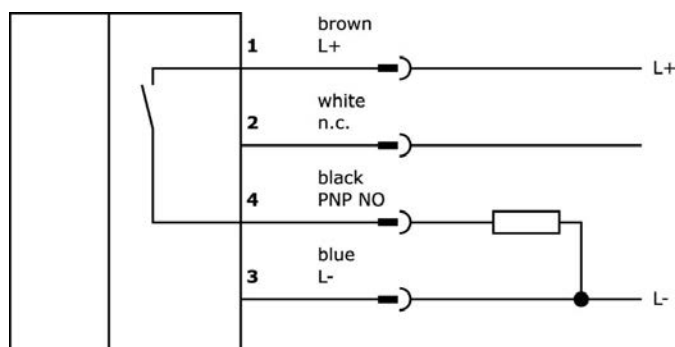
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	216 inductive sensors (preferential)
packaging dimensions	123 x 77 x 25 mm
gross weight	60 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Installation



Mounting / installation may only be carried out by a qualified electrician!

Disposal



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.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Dimensional drawing

