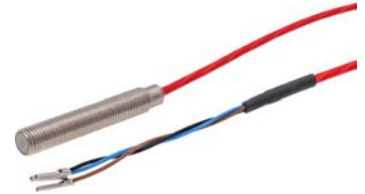


IB0801K0

Inductive sensors • atmospheric-change resistant

Sensor Inductive, M8x1 53lang, non-flush, Sn: 2, 10-30V DC, 0-120°C, PNP NO, cable 2m FEP, IP68, V4A

including 2x Nut



Temperature resistant up to +120°C
Climate change resistant

Inductive proximity switches are contactless sensors. They detect all conductive metals, regardless of whether they are moving or not. The achievable switching distance of the devices depends on the object material and its dimensions. The vibration-insensitive sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. product carriers), positioning (e.g. oven doors), counting (e.g. nuts / screws), speed detection (e.g. on gear wheels), on conveyor systems (e.g. hose feeders) or distance measurements (e.g. press-fit control) of metallic objects.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	100mA
Relative hysteresis	10%
Correction factor (aluminum)	0.25
Correction factor (copper)	0.17
Correction factor (brass)	0.32
Correction factor (St37)	1
Correction factor (stainl. steel)	0.63
Short-circuit protection	Yes
No-load current	3mA
Relative repeat accuracy	3%
Residual ripple	10%
Switching distance	2mm
Switching frequency	1500Hz
Voltage drop	3.5V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Number of cores	3
Conductor cross-section	0.14mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Pressure resistance	3bar
Thread length	45mm
Thread pitch	1mm
Cable length	2m
Cable infeed	axial
Length	53mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP68
Active area material of sensor	Plastic (PEEK)
Housing material	Stainless steel 1.4571
Material of cable sheath	Plastic (FEP)
Atmospheric-change resistant (temperature cycle)	Yes
Thread dimension	M8
Ambient temperature	0 - 120°C

Other features

Oil and cooling lubricants	Yes
Reference medium / object	Standard measuring plate FE360 8x8x1mm
Ambient temperature	0 - 120°C

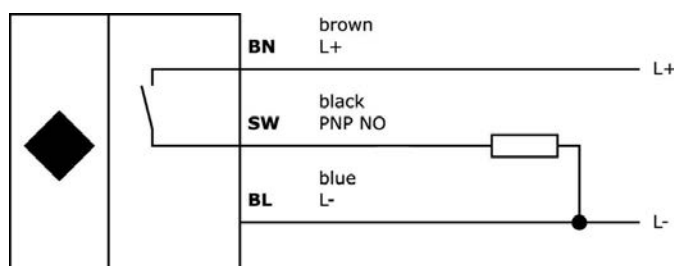
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	212 inductive sensors (unaffected by atmospheric changes)
packaging dimensions	149 x 124 x 28 mm
gross weight	75 g
Customs tariff number	85365019
WEEE number	40951076
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