

IB1841K1

Inductive sensors • atmospheric-change resistant

sensor inductive, M18x1 95long, Flush, Sn: 5, 20-250V AC, -25-120°C, Two-wire NO, Cable 5m FEP, IP69K, V4A



Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. dampers), counting (e.g. nuts /bolts), speed detection (e.g. for cog wheels), on conveyor systems (e.g. hose feedings) or distance measurements (e.g. press-in checking) 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	Two-wire
Rated switching current	400mA
Relative hysteresis	10%
No-load current	2.5mA
Line diameter	4.6mm
Relative repeat accuracy	3%
Switching distance	5mm
Switching frequency	25Hz
Voltage drop	5V
Reverse polarity protection	Yes
Min. output current	5mA
Operating voltage (AC 50Hz)	20 - 250V

Mechanical features

Number of cores	3
Conductor cross-section	0.75mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Pressure resistance	10bar
Thread length	60mm
Thread pitch	1mm
Cable length	5m
Cable infeed	axial
Length	95mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP69K
Active area material of sensor	Plastic (PTFE)
Housing material	Stainless steel 1.4571
Material of cable sheath	Plastic (FEP)
Atmospheric-change resistant (temperature cycle)	Yes
Thread dimension	M18
Ambient temperature	-25 - 120°C

Other features

Oil and cooling lubricants	Yes
Reference medium / object	Standard measuring plate FE360 18x18x1mm
Ambient temperature	-25 - 120°C

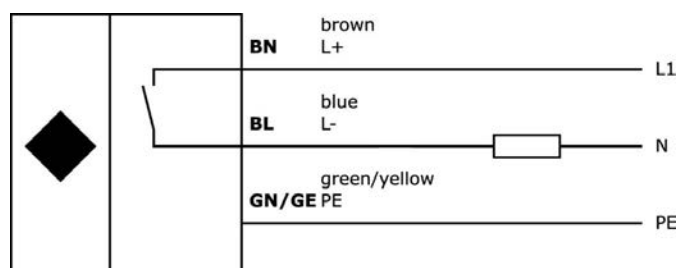
Classification

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	321 g
Customs tariff number	85365080
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

