

IB3004K1

Inductive sensors • atmospheric-change resistant

sensor inductive, M30x1.5 100long, Flush, Sn: 10, 10-33V DC, -25-120°C, PNP
Anticoincidence, Cable 5m FEP, IP69K, V4A

including 2x Nut



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

Type of switching function	Exclusive-OR
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	200mA
Short-circuit protection	Yes
Line diameter	4.6mm
Switching distance	10mm
Switching frequency	150Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 33V

Mechanical features

Number of cores	4
Conductor cross-section	0.25mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Pressure resistance	10bar
Thread pitch	1.5mm
Cable length	5m
Cable infeed	axial
Length	100mm
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	M30
Ambient temperature	-25 - 120°C

Other features

Oil and cooling lubricants	Yes
Ambient temperature	-25 - 120°C

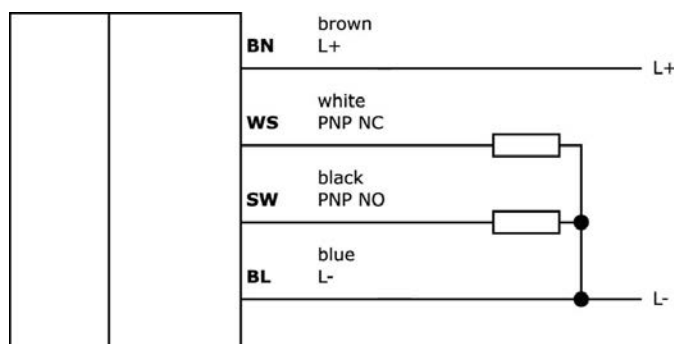
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	212 inductive sensors (unaffected by atmospheric changes)
packaging dimensions	210 x 138 x 95 mm
gross weight	463 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.