

IC1801K2

Inductive sensors • Full-metal housing

sensor inductive, all-steel, M18x1 66long, Flush, Sn: 5, 10-30V DC, -10-110°C, PNP NO, Cable 10m 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	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	250mA
Short-circuit protection	Yes
No-load current	5mA
Line diameter	4.6mm
Switching distance	5mm
Switching frequency	180Hz
Voltage drop	1.5V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Number of cores	3
Conductor cross-section	0.34mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	39.5mm
Thread pitch	1mm
Cable length	10m
Cable infeed	axial
Length	66mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP69K
Active area material of sensor	Stainless steel 1.4404
Housing material	Stainless steel 1.4404
Material of cable sheath	Plastic (FEP)
Atmospheric-change resistant (temperature cycle)	Yes
Thread dimension	M18
Ambient temperature	-10 - 110°C

Other features

Harsh environmental conditions	Yes
Feeding technology	Yes
Oil and cooling lubricants	Yes
Reference medium / object	Standard measuring plate FE360 18x18x1mm
Ambient temperature	-10 - 110°C

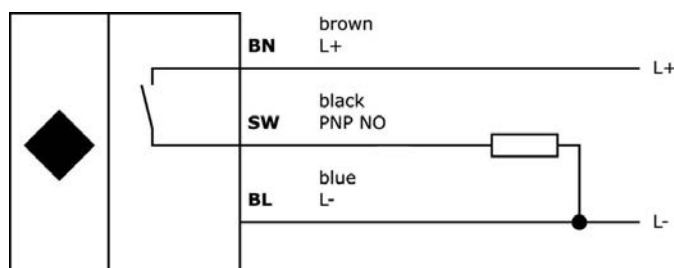
Classification

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	420 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.