

IB250400

Inductive sensors • Norm switching distance

sensor inductive, 50x10x25mm, Flush, Sn: 5, 10-30V DC, PNP NO, Cable 2m PVC, IP67, PA 6.6 (synthetic), Static



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 closed contact/normally open contact
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	200mA
Relative hysteresis	15%
No-load current	13mA
Residual ripple	10%
Switching distance	5mm
Switching frequency	1000Hz
Switching behavior of the output	Static
Voltage drop	2.4V
Operating voltage (DC)	10 - 30V

Mechanical features

Number of cores	4
Conductor cross-section	0.25mm ²
Design	Cuboid
Width	25mm
Height	50mm
Cable length	2m
Cable infeed	axial
Length	10mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PA6.6)
Housing material	PA 6.6 (synthetic)
Material of cable sheath	Plastic (PVC)
Ambient temperature	-25 - 70°C

Other features

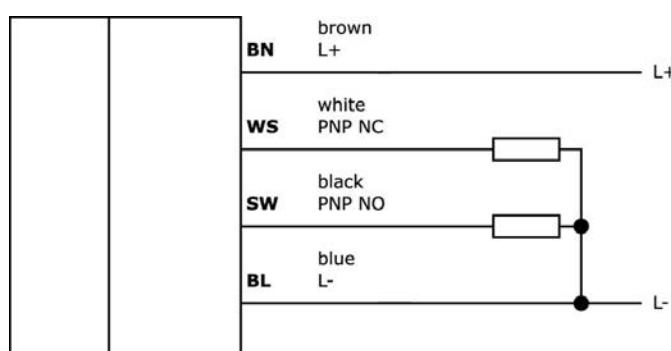
Reference medium / object	Standard measuring plate FE360 18x18x1mm
Ambient temperature	-25 - 70°C

Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	215 inductive sensors (cuboid)
packaging dimensions	123 x 77 x 25 mm
gross weight	91 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes
MTTF	995 year(s)

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