

IB98E314

Inductive sensors • Increased switching distance

sensor inductive, 9,5x24x23mm, Flush, Sn: 2, 10-30V DC, PNP NO, Cable connector M8 3pin 0.3m PUR (Polyurethane), IP67, Aluminum



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

Response/decay time	0.25ms
Number of normally open contacts	1
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M8
Type of switching output	PNP
Rated switching current	200mA
Readiness delay	100ms
Relative hysteresis	15%
Correction factor (aluminum)	0.3
Correction factor (copper)	0.2
Correction factor (brass)	0.4
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Short-circuit protection	Yes
No-load current	13mA
Number of pins	3
Relative repeat accuracy	5%
Residual ripple	10%
Switching distance	2mm
Switching frequency	2000Hz
Voltage drop	2.4V
Reverse polarity protection	Yes
Decay time	0.25ms
Operating voltage (DC)	10 - 30V

Mechanical features

Number of cores	3
Conductor cross-section	0.14mm ²
Design	Cuboid
Width	23mm
Height	9.5mm
Cable length	0.3m
Cable infeed	axial
Length	24.5mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PA6)
Housing material	Aluminum
Material of cable sheath	Plastic (PUR)
Ambient temperature	-20 - 60°C

Other features

Reference medium / object	Standard measuring plate FE360 8x8x1mm
Ambient temperature	-20 - 60°C

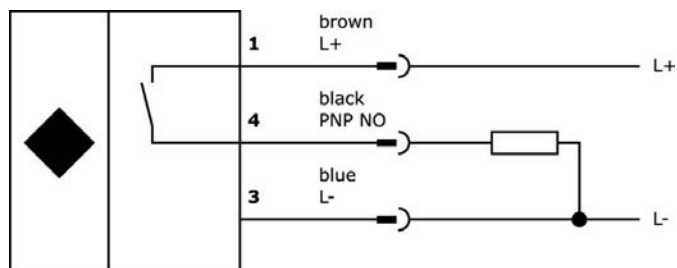
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	215 inductive sensors (cuboid)
packaging dimensions	120 x 100 x 8 mm
gross weight	13 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
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

