

IN40012W

Inductive sensors • Increased ambient temperature

sensor inductive, 40x71x40mm, Non-flush, Sn: 25, 10-35V DC, 0-150°C, PNP NO, Connector M12, IP65, Stainless steel 1.4305



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	Connector M12
Type of switching output	PNP
Rated switching current	150mA
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	15mA
Switching distance	25mm
Switching frequency	100Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35V

Mechanical features

Design	Cuboid
Width	40mm
Height	40mm
Cable infeed	axial
Length	70.7mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP65
Active area material of sensor	Plastic (Vectra®)
Housing material	Stainless steel 1.4305
Ambient temperature	0 - 150°C

Other features

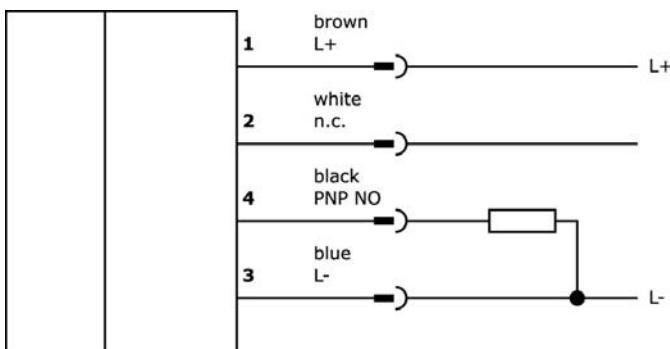
Ambient temperature	0 - 150°C
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Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	202 inductive sensors (high temperature)
packaging dimensions	160 x 99 x 60 mm
gross weight	329 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes
MTTF	813 year(s)
MTTFd	1627 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