IPF ELECTRONIC

DATA SHEET IV120450 • Subject to alteration! Version: 03.05.2019
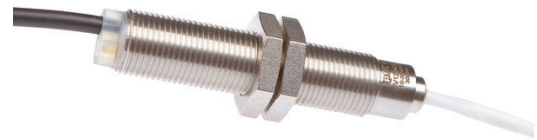
IV120450

INDUCTIVE SENSORS • ENLARGED AMBIENT TEMPERATURE

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.

MECHANICAL DATA

Cable length	2 m
Degree of protection (IP)	IP65
Depth	55 mm
Device design	Field device
Housing design	Cylinder, screw-thread
Housing material	Stainless steel V2A
Length	55 mm
Material of cable sheath	PUR (Polyurethane)
Mounting method	Front fastening
Number of wires	4
Thread length	48 mm

ELECTRICAL DATA

Amplifier for inductive sensors	Yes
Galvanic isolation between input and output	No
Galvanic isolation between inputs	No
Galvanic isolation between supply voltage and all other current circuits	No
Inherently safe according to EN 60947-5-6 NAMUR	No
Malfunction message output	No
No-load current	25 mA
Number of output circuits, transistor pnp	1
Number of pins	4
Rated supply voltage at DC	7 V ... 35 V
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Switching current	0.3 A
Switching frequency	1000 Hz
Switching voltage	24 V
Type of electrical connection	Plug-in connection M12

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ELECTRICAL DATA

Type of switching function	Normally open/normally closed
Type of voltage supply	Active
Voltage drop	2 V
With LED display	Yes

OTHER DATA

Operating temperature	-25 °C … 75 °C

DIMENSIONAL DRAWING

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!

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