

## IV520900

### INDUCTIVE SENSORS • SWITCHING AMPLIFIERS

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

Degree of protection (IP)	IP20
Depth	114.5 mm
Device design	Field device
Height	108 mm
Housing design	Cuboid
Housing material	Plastic
Length	114.5 mm
Mounting method	DIN rail
Width	17.6 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	Yes
Malfunction message output	No
Max. outer capacity	26 $\mu$ F
Max. outer inductivity	340 mH
No-load current	36 mA
Number of channels	2
Number of inputs, in acc. with NAMUR	2
Output circuit, relay change-over contact	2
Power consumption	0.86 W
Rated supply voltage at DC (MAX)	31 V
Rated supply voltage at DC (MIN)	18 V
Suitable for safety functions	No
Switching capacity	500 VA
Switching current	2 A
Switching voltage	250 V

**ELECTRICAL DATA**

Type of electrical connection	Clamp
Type of switching function	Normally open contact (NO)
Type of voltage supply	Active
With LED display	Yes

**OTHER DATA**

Operating temperature (MAX)	70 °C
Operating temperature (MIN)	-20 °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!

Never use these devices in applications where the safety of a person depends on their functionality.