

IV520100**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 µF
Max. outer inductivity	340 mH
No-load current	36 mA
Number of channels	2
Number of inputs, in acc. with NAMUR	2
Number of output circuits, transistor voltage-free	2
Power consumption	0.86 W
Rated supply voltage at DC	18 V ... 31 V
Suitable for safety functions	No
Switching capacity	1.75 VA
Switching current	0.05 A
Switching voltage	35 V
Type of electrical connection	Clamp

ELECTRICAL DATA

Type of switching function

Normally open contact (NO)

Type of voltage supply

Active

With LED display

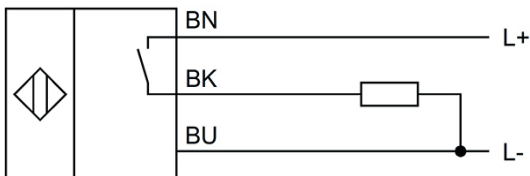
Yes

OTHER DATA

Operating temperature

-20 °C ... 70 °C

CONNECTION



Colors: BN (brown), BU (blue), BK (black)

Functions: BN = L+, BU = L-, BK = PNP NO

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!