

IV850700

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

Degree of protection (IP)	IP20
Depth	85 mm
Device design	Field device
Height	58 mm
Housing design	Cuboid
Housing material	Plastic
Length	85 mm
Mounting method	DIN rail
Width	17.8 mm

ELECTRICAL DATA

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	Yes
No-load current	25 mA
Number of output circuits, transistor pnp	2
Power consumption	0.6 W
Rated supply voltage at DC (MAX)	30 V
Rated supply voltage at DC (MIN)	10 V
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Switching current	0.2 A
Switching frequency	1000 Hz
Switching voltage	30 V
Type of electrical connection	Clamp
Type of switching function	Normally open/normally closed
Type of voltage supply	Active

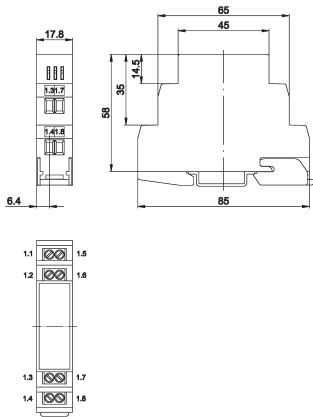
ELECTRICAL DATA

Voltage drop	3 V
With LED display	Yes

OTHER DATA

Operating temperature (MAX)	75 °C
Operating temperature (MIN)	-25 °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.