

IN180155

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

WEST AND SEE STATE	
Active area material of sensor	Vectra [®]
Ambient temperature (MAX)	130 °C
Cable length	2 m
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Housing design	EV006727
Housing material	IV000115
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	Silicone
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	77 mm
Thread length	60 mm
Thread pitch	1 mm
Thread size, metric	18
Wire cross section	0.14 mm²

ELECTRICAL DATA

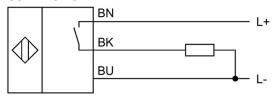
Cascadable	No
Correction factor (aluminum)	0.3
Correction factor (brass)	0.4
Correction factor (copper)	0.2
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Hysteresis	15 %
Max. output current	150 mA
No-load current	15 mA
Norm measuring plate	18x18x1
Rated control supply voltage Us at DC	10 V 35 V
Readiness delay	5 ms



ELECTRICAL DATA

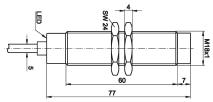
Relative repeat accuracy	3 %
Residual ripple	10 %
Response time	1.2 ms
Reverse polarity protection	Yes
Short-circuit protection	Yes
Suitable for safety functions	No
Supply voltage	10 V 35 V
Switching distance	8 mm
Switching frequency	400 Hz
Type of electrical connection	Cable
Type of electrical connection	EV000136
Type of electrical connection	LV000130
Type of switching function	Normally open contact
Type of switching function	Normally open contact
Type of switching function Type of switching function	Normally open contact EV000145
Type of switching function Type of switching function Type of switching output	Normally open contact EV000145 PNP
Type of switching function Type of switching function Type of switching output Voltage drop	Normally open contact EV000145 PNP 2 V

CONNECTION



Colors: BN (brown), BU (blue), BK (black) **Functions:** BN = L+, BU = L-, BK = PNP NO

DIMENSIONAL DRAWING



INSTALLATION DISPOSAL





Mounting / Installation may only be carried out by a qualified electrician!



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.