IN120250

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.

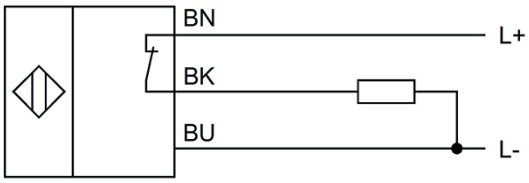
MECHANICAL DATA

Active area material of sensor	Vectra®
Ambient temperature (MAX)	150 °C
Degree of protection (IP)	IP50
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	Silicone
Max. tightening torque	20 Nm
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	65 mm
Thread pitch	1 mm
Thread size, metric	12
Wire cross section	0.25 mm²

ELECTRICAL DATA

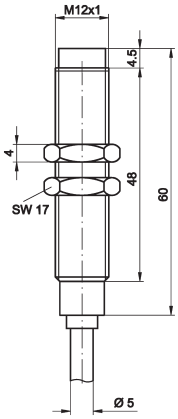
Cascadable	No
Max. output current	120 mA
Readiness delay	80 ms
Relative repeat accuracy	3 %
Residual ripple	10 %
Response time	1 ms
Suitable for safety functions	No
Supply voltage (MAX)	35 V
Supply voltage (MIN)	10 V
Switching distance	4 mm
Type of electrical connection	Cable
Type of switching function	Breaker contact
Type of switching output	PNP
Voltage type	DC
With monitoring function of downstream devices	No

CONNECTION



Colors: BN (brown), BU (blue), BK (black)
Functions: BN = L+, BU = L-, BK = PNP NC

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.

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