IB120006

INDUCTIVE SENSORS • DISTANCE MEASUREMENT

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	PBTP
Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing coating	Chromium-plated
Housing design	Cylinder, screw-thread
Housing material	Brass
Mechanical mounting condition for sensor	Quasi-flat
Sensor length	50 mm
Thread pitch	1 mm
Thread size, metric	12

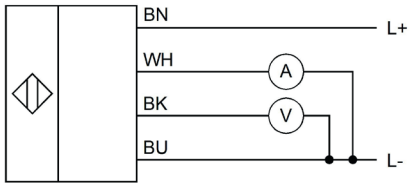
ELECTRICAL DATA

Absolute repeat accuracy	0.3 mm
Correction factor (aluminum)	0.28
Correction factor (brass)	0.35
Correction factor (copper)	0.2
Correction factor (St37)	1
Correction factor (stainl. steel)	0.47
Distance measuring sensors	Yes
Measuring range length	0 mm ... 6 mm
No-load current	12 mA
Number of pins	4
Operating voltage	15 V ... 30 V
Readiness delay	50 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Supply voltage	15 V ... 30 V
Type of analog output	0 V ... 10 V / 4 mA ... 20 mA
Type of electrical connection	Cable
Voltage type	DC

OPTICAL DATA

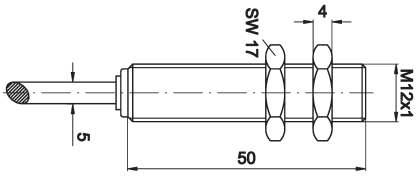
Resolution	1 µm

CONNECTION



Colors: BN (brown), WH (white), BU (blue), BK (black)
Functions: BN = L+, WH = 4-20mA, BU = L-, BK = 0-10V

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!

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