

IB080189

INDUCTIVE SENSORS • WELDING PROOF

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	PBT
Ambient temperature (MAX)	80 °C
Ambient temperature (MIN)	-25 °C
Degree of protection (IP)	IP67
Housing coating	Teflon coated
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Material independent sensors (factor 1)	Yes
Mechanical mounting condition for sensor	Flush
Pressure-proof	No
Sensor length	60 mm
Thread pitch	1 mm
Thread size, metric	8

ELECTRICAL DATA

Cascadable	No
Hysteresis	10 %
Interference resistance to magnetic fields	Immune against magnetic AC-field
Max. output current	200 mA
No-load current	20 mA
Norm measuring plate	8x8x1
Number of pins	3
Relative repeat accuracy	10 %
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage (MAX)	30 V
Supply voltage (MIN)	10 V
Switching distance	1.5 mm
Switching frequency	20000 Hz
Type of electrical connection	Connector M8

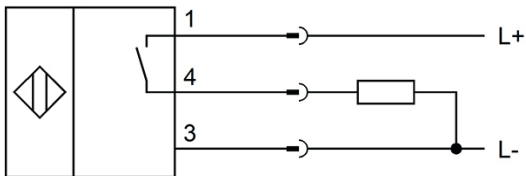
ELECTRICAL DATA

Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2.5 V
Voltage type	DC
With monitoring function of downstream devices	No

OTHER DATA

Welding area	Yes
Welding-proof sensors	Yes

CONNECTION



Colors: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 3 = L-, 4 = 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!

Never use these devices in applications where the safety of a person depends on their functionality.