IB08A537

INDUCTIVE SENSORS • ENLARGED SWITCHING DISTANCE

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	PA 6.6 (synthetic)
Ambient temperature (MAX)	70 °C
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Mechanical mounting condition for sensor	Quasi-flat
Pressure-proof	No
Sensor length	60 mm
Thread length	46 mm
Thread pitch	1 mm
Thread size, metric	8

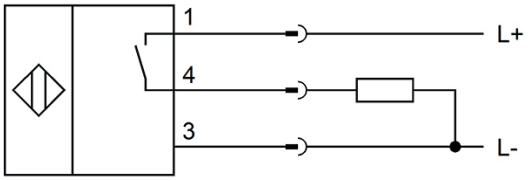
ELECTRICAL DATA

Cascadable	No
Hysteresis	15 %
Max. output current	200 mA
Operating voltage (MAX)	30 V
Operating voltage (MIN)	10 V
Readiness delay	300 ms
Relative repeat accuracy	10 %
Residual ripple	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	3 mm
Switching frequency	1000 Hz
Type of electrical connection	Connector M8
Type of switching function	Normally open contact
Type of switching output	PNP

ELECTRICAL DATA

Voltage drop	2.4 V
Voltage type	DC
With monitoring function of downstream devices	No

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.

ipf electronic gmbh • Kalver Straße 25 - 27 • 58515 Lüdenscheid - Germany | Tel +49 2351 9365-0 • Fax +49 2351 9365-19 |
info@ipf-electronic.com • **www.ipf-electronic.com**