

IB06A558**INDUCTIVE SENSORS • NORM 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	PBT
Ambient temperature	-25 °C ... 75 °C
Degree of protection (IP)	IP67
Housing design	Cylinder plain
Housing material	Stainless steel 1.4305
Mechanical mounting condition for sensor	Quasi-flat
Pressure-proof	No
Sensor diameter	6.5 mm
Sensor length	46 mm

ELECTRICAL DATA

Cascadable	No
Hysteresis	25 %
IO-Link compatible	No
Max. output current	200 mA
No-load current	18 mA
Suitable for safety functions	No
Supply voltage	12 V ... 30 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
Voltage drop	2 V
Voltage type	DC
With LED display	Yes
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!