

IB08C851

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 (MAX)	80 °C
Ambient temperature (MIN)	-25 °C
Degree of protection (IP)	IP67
Housing coating	White bronze
Housing design	Cylinder, screw-thread
Housing material	CuZn
Mechanical mounting condition for sensor	Flush
Pressure-proof	No
Sensor length	69 mm
Thread length	38 mm
Thread pitch	1 mm
Thread size, metric	8

ELECTRICAL DATA

Cascadable	No
Hysteresis	15 %
Max. output current	200 mA
Min. output current	4 mA
No-load current	0.8 mA
Norm measuring plate	8x8x1
Number of pins	2
Suitable for safety functions	No
Supply voltage (MAX)	36 V
Supply voltage (MIN)	5 V
Switching distance	1 mm
Switching frequency	2700 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP/NPN

ELECTRICAL DATA

Voltage drop	4.6 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	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.