

IN18C637
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	PA 6.6 (synthetic)
Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing coating	Nickel-plated
Housing design	Cylinder, screw-thread
Housing material	Brass
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	65 mm
Thread pitch	1 mm
Thread size, metric	18

ELECTRICAL DATA

Cascadable	No
Hysteresis	15 %
IO-Link compatible	No
Max. output current	100 mA
No-load current	13 mA
Norm measuring plate	18x18x1
Relative repeat accuracy	15 %
Suitable for safety functions	No
Supply voltage	10 V ... 30 V
Switching distance	10 mm
Switching frequency	500 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2.4 V
Voltage type	DC
With monitoring function of downstream devices	No

CONNECTION



Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 2 = n. c., 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!