

**IN18A333**

**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.



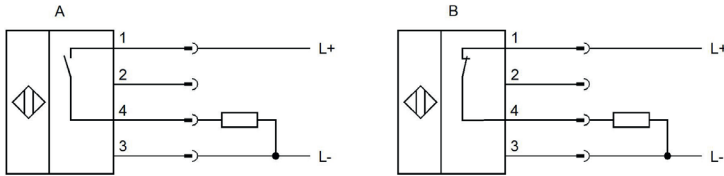
**MECHANICAL DATA**

Active area material of sensor	Polycarbonate
Ambient temperature (MAX)	80 °C
Ambient temperature (MIN)	-25 °C
Degree of protection (IP)	IP65
Housing coating	White bronze
Housing design	Cylinder, screw-thread
Housing material	Brass
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	89 mm
Thread pitch	1 mm
Thread size, metric	18

**ELECTRICAL DATA**

Cascadable	No
Max. output current	250 mA
Suitable for safety functions	No
Supply voltage (MAX)	36 V
Supply voltage (MIN)	10 V
Switching distance	8 mm
Type of electrical connection	Connector M12
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage type	DC
With monitoring function of downstream devices	No

## CONNECTION



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

**Functions:** A: 1 = L+, 2 = n. c., 3 = L-, 4 = PNP NO

B: 1 = L+, 2 = n. c., 3 = L-, 4 = PNP NC

## 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.