

## IN800307

### 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	PBT
Ambient temperature (MAX)	75 °C
Ambient temperature (MIN)	-25 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder plain
Housing material	Aluminum / PTB
Material independent sensors (factor 1)	Yes
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Non-flush
Number of wires	3
Pressure-proof	No
Sensor diameter	80 mm
Sensor length	40 mm
Wire cross section	0.5 mm <sup>2</sup>

#### ELECTRICAL DATA

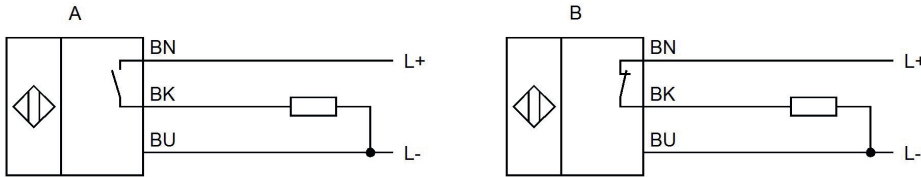
Cascadable	No
Max. output current	200 mA
Suitable for safety functions	No
Supply voltage (MAX)	30 V
Supply voltage (MIN)	10 V
Switching distance	70 mm
Type of electrical connection	Cable
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage type	DC
With monitoring function of downstream devices	No

**OTHER DATA**

Areas inquiry

Yes

**CONNECTION**



**Colors:** A: BN (brown), BU (blue), BK (black)

B: BN (brown), BU (blue), BK (black) **Functions:** A: BN = L+, BU = L-, BK = PNP NO

B: BN = L+, BU = L-, BK = 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.