

**MZ072177**

**MAGNETIC SENSORS • SENSORS FOR PNEUMATIC CYLINDERS**

For many tasks in the field of automation technology, it is necessary to recognize the motional processes in pneumatic and hydraulic cylinders and to detect the position of the piston with precision. For this, magnetic cylinder sensors are used.



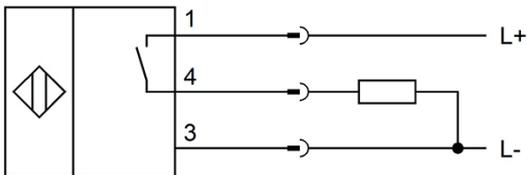
**TECHNICAL DATA**

Ambient temperature	-25 °C ... 80 °C
Cable length	0.3 m
Cross/short circuit identification possible	Yes
Cylinder sensors	Yes
Degree of protection (IP)	IP67
For T-groove	Yes
Harsh environmental conditions	No
Housing design	Cuboid
Housing material	Plastic
Increased ambient temperatures > 80°C	No
Low sensitivity	No
Low switching hysteresis	Yes
Material of cable sheath	PUR (Polyurethane)
Max. output current	200 mA
Metal housing	No
Metallic sensor surface	No
Mounting access, cylinder groove	From the top
Number of pins	3
Oil and cooling lubricants	No
Operating voltage	10 V ... 30 V
Rated supply voltage at DC	10 V ... 30 V
Reed contact	No
Reverse polarity protection	Yes
Sensor height	4.6 mm
Sensor length	30.5 mm
Sensor surface (active)	Border area / edge area
Sensor surface position	Border area of the device
Sensor width	6.2 mm
Setting via teach-in	No
Short travel path	No

## TECHNICAL DATA

Short-circuit-proof	Yes
Strong vibration / motion	No
Suitable for safety functions	No
Two switching points	No
Type of actuation	Magnet
Type of electrical connection	Cable connector M8
Type of electrical connection	Cable with connector
Type of switching function	Normally open contact
Type of switching output	PNP
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!

Never use these devices in applications where the safety of a person depends on their functionality.