

MZR42109**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.

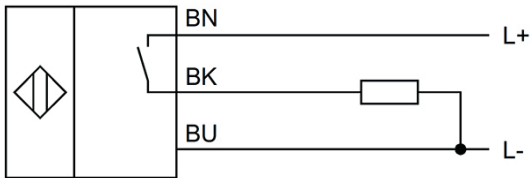
**TECHNICAL DATA**

Ambient temperature	-25 °C ... 70 °C
Cross/short circuit identification possible	No
Cylinder sensors	Yes
Degree of protection (IP)	IP67
Harsh environmental conditions	Yes
Housing design	Cylinder plain
Housing material	Stainless steel
Hysteresis	1 mm
Increased ambient temperatures > 80°C	No
Low sensitivity	Yes
Low switching hysteresis	Yes
Material of cable sheath	PUR (Polyurethane)
Max. output current	100 mA
Metal housing	Yes
Metallic sensor surface	No
Mounting access, cylinder groove	Lateral
No-load current	10 mA
Number of switching outputs	1
Number of wires	3
Oil and cooling lubricants	Yes
Operating voltage	10 V ... 30 V
Rated supply voltage at DC	10 V ... 30 V
Reed contact	No
Relative repeat accuracy	0.1 mm
Reverse polarity protection	Yes
Sensor diameter	4 mm
Sensor length	20.5 mm
Sensor surface (active)	Middle area
Sensor surface position	Border area of the device
Setting via teach-in	No

TECHNICAL DATA

Short travel path	No
Short-circuit-proof	No
Strong vibration / motion	Yes
Suitable for safety functions	No
Switching frequency	1000 Hz
Two switching points	No
Type of actuation	Magnet
Type of electrical connection	Cable
Type of rounded groove	4.1mm rounded groove
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

CONNECTION



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

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

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