

MZR401A8

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

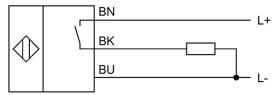
| TECHNICAL DATA | |
|---|---------------------------|
| Ambient temperature | -25 °C 70 °C |
| Cable length | 2 m |
| Cross/short circuit identification possible | Yes |
| Cylinder sensors | Yes |
| Degree of protection (IP) | IP67 |
| Harsh environmental conditions | Yes |
| Housing design | Cylinder plain |
| Housing material | Stainless steel |
| Hysteresis | 1 mm |
| Increased ambient temperatures > 80°C | No |
| Low sensitivity | No |
| Low switching hysteresis | Yes |
| Material of cable sheath | PUR (Polyurethane) |
| Max. output current | 150 mA |
| Metal housing | Yes |
| Metallic sensor surface | No |
| Mounting access, cylinder groove | Lateral |
| No-load current | 15 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 | 3.6 mm |
| Sensor length | 20.5 mm |
| Sensor surface (active) | Middle area |
| Sensor surface position | Border area of the device |
| | |



TECHNICAL DATA

| Setting via teach-in | No |
|--|-----------------------|
| Short travel path | No |
| Short-circuit-proof | Yes |
| 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 | 3.75mm 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.