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.
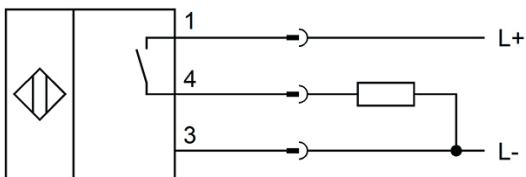
TECHNICAL DATA

Harsh environmental conditions	YES
Metallic sensor surface	NO
Oil and cooling lubricants	YES
Ambient temperature (min/max)	-25 °C / 70 °C
Cable length	0.3 m
Degree of protection (IP)	IP67
Housing design	Cylinder plain
Housing material	Stainless steel
Increased ambient temperatures > 80°C	NO
Material of cable sheath	PUR (Polyurethane)
Metal housing	YES
Mounting access, cylinder groove	Lateral
Number of wires	3
Sensor diameter	3.6 mm
Sensor length	20.5 mm
Sensor surface position	Border area of the device
Strong vibration / motion	YES
Type of rounded groove	3.75mm rounded groove
Cross/short circuit identification possible	YES
Hysteresis	1 mm
Low sensitivity	NO
Low switching hysteresis	YES
Max. output current	150 mA
No-load current	10 mA
Number of pins	3
Number of switching outputs	1
Operating voltage (min/max)	10 V / 30 V
Rated supply voltage at DC (min/max)	10 V / 30 V
Reed contact	NO
Relative repeat accuracy	0.1 mm
Reverse polarity protection	YES

TECHNICAL DATA

Sensor surface (active)	Middle area
Setting via teach-in	NO
Short-circuit-proof	YES
Suitable for safety functions	NO
Switching frequency	1000 Hz
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 drop	2 V
Voltage type	DC
With LED display	YES
With monitoring function of downstream devices	NO
Cylinder sensors	YES
Short travel path	NO

CONNECTION

Colors: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)
Functions: 1 = L+, 3 = L-, 4 = PNP NO

DIMENSIONAL DRAWING