

pneumatic cylinder sensors

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 / 75 °C
Cable length	0.3 m
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	Aluminium
Increased ambient temperatures > 80°C	NO
Material of cable sheath	PUR (Polyurethane)
Metal housing	YES
Mounting access, cylinder groove	From the top
Sensor height	4.5 mm
Sensor length	16.5 mm
Sensor surface position	Centre of the device
Sensor width	11.8 mm
Strong vibration / motion	YES
Cross/short circuit identification possible	YES
Hysteresis	1 mm
Low sensitivity	NO
Low switching hysteresis	YES
Max. output current	150 mA
No-load current	15 mA
Number of pins	3
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
Sensor surface (active)	Middle area
Setting via teach-in	NO

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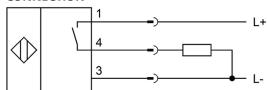
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TECHNICAL DATA

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 with connector
Type of electrical connection	Cable connector M8
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
For trapezoidal groove	Yes
Short travel path	NO

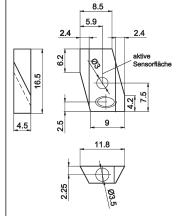
CONNECTION



Colors: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 3 = L-, 4 = PNP NO

DIMENSIONAL DRAWING







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ipf electronic gmbh