

MZR90185

Magnetic field sensors • Sensors for pneumatic cylinders

sensor magnetic, cylinder, 9mm round, Ø9mm 22long, 10-30V DC, 1x PNP NO, Connector M8 3pin, IP67, Stainless steel, LED, 2.8mT, mounting From the top, Sensor surface position Center of the device



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.

Electrical features

Number of switching outputs	1
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	150 mA
Absolute hysteresis	1 mm
Short-circuit protection	Yes
No-load current	15 mA
Magnetic sensitivity	2.8 mT
Number of pins	3
Switching frequency	1000 Hz
Sensor surface (active)	Middle area
Voltage drop	2 V
Reverse polarity protection	Yes
Absolute repeat accuracy	0.1 mm
Operating voltage (DC)	10 - 30 V

Mechanical features

Design	Cylinder plain
Diameter	9 mm
Sensor surface position	Center of the device
Length	22 mm
Degree of protection (IP)	IP67
Housing material	Stainless steel
Strong vibration / motion	Yes
Ambient temperature	-25 - 75 °C

Other features

Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes
Version	For 9mm round

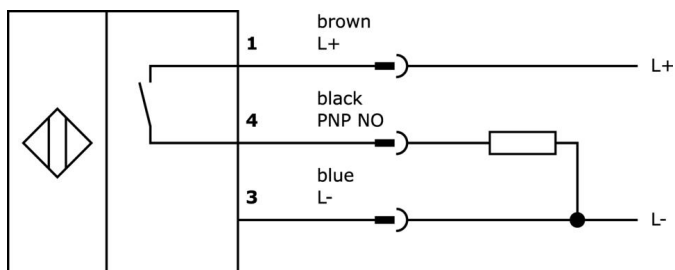
Classification

ETIM 8	EC002544 Magnetic proximity switch
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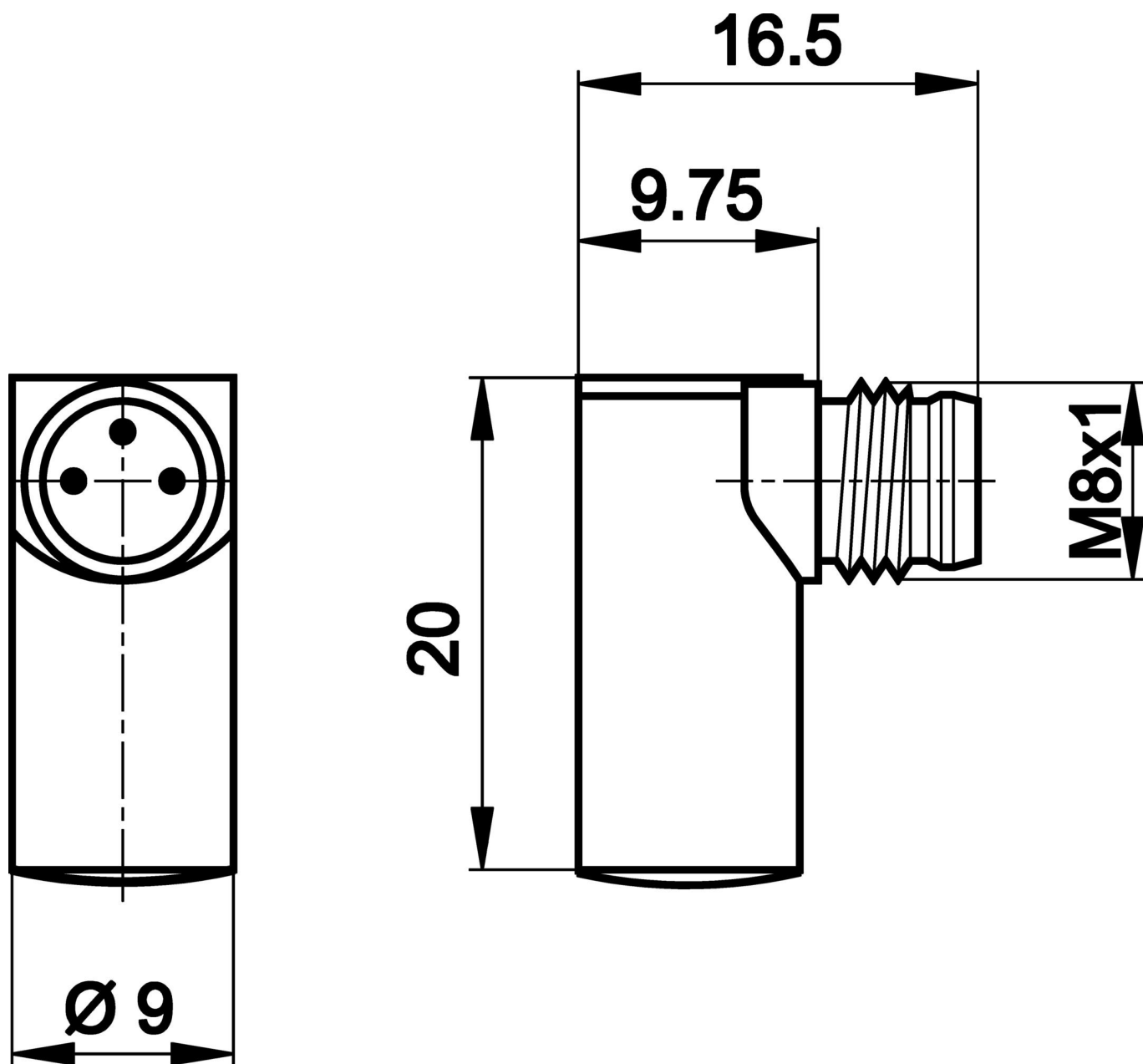
More

IPF Product Group	220 pneumatic cylinder sensors
packaging dimensions	120 x 100 x 17 mm
gross weight	6 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

VK030F82

Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm², PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK060F82

Connection cable, 0.6m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm², PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VL300138

Logic module, 26x136x30mm, OR, 2x4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic

VL300148

Logic module, 26x136x30mm, AND, 4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic, Signal change logic

VY000004

DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

VYR90270

Signal inversion, Ø9mm 32long, 10-35V DC, 1x NC, M8 0.3m, IP67, Aluminum

VYR91170

Inverter, Ø9mm 32long, PNP/NPN, 10-35V DC, 1x NO, M8 0.3m, IP67, Aluminum

VY030170

time stage, Turn-off delay, 0-0.15s, 10-35V DC, 1x NO, M8 3pin 0.3m, IP67, Plastic, Potentiometer

VY030174

time stage, Turn-off delay, 0-0.15s, 10-35V DC, 1x NO, M8 3pin 0.3m, IP67, Plastic, Potentiometer

You can find further accessories on our homepage



Installation

Mounting / installation may only be carried out by a qualified electrician!



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

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.