

MZR421F9

Magnetic field sensors • Sensors for C-slot

Sensor Magnetic, cylinder, 4.1mm round groove, Ø4mm 20long, 10-30V DC, 1x PNP NO, M8 cable connector 3-pin 0.6m PUR (polyurethane), IP67, stainl. steel, VA, LED, 6mT, lateral installation, position of sensor surface device edge area



For many tasks in automation technology, it is necessary to recognize the movement processes in pneumatic and hydraulic cylinders and to precisely detect the position of the piston. This is where magnetic cylinder sensors are used, which are attached to the cylinders using adapters or directly from the outside.

Electrical features

Number of switching outputs	1
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M8
Type of switching output	PNP
Rated switching current	100 mA
No-load current	10 mA
Magnetic sensitivity	6 mT
Number of pins	3
Switching frequency	1000 Hz
Sensor surface (active)	Border area / edge area
Voltage drop	2 V
Absolute repeat accuracy	0.1 mm
Operating voltage (DC)	10 - 30 V
ardTEEL_Schutzfunktionen	Verpolungsschutz Kurzschlusschutz

Mechanical features

Design	Cylinder plain
Diameter	4 mm
Cable length	0.6 m
Sensor surface position	Device edge area below the light emitting diode
Length	20.5 mm
Mounting access, cylinder groove	Lateral
Degree of protection (IP)	IP67
Housing material	Stainless steel 1.4305
Material of cable sheath	Kunststoff (PUR)
Strong vibration / motion	Yes
Ambient temperature	-25 - 70 °C
ardTEME_Umgebungsbedingungen	Öle Kühlschmiermittel

Other features

Suitable for	4.1mm C-slot (round groove)
Cylinder manufacturer	SMC
Harsh environmental conditions	Yes

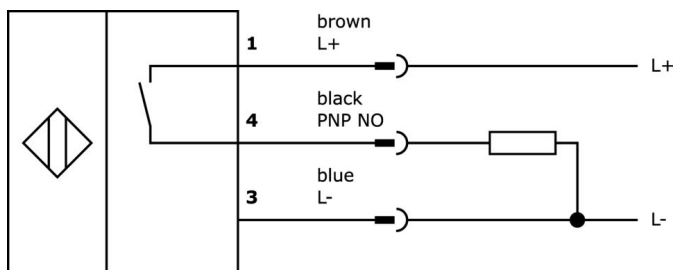
Classification

ETIM 8	EC002544 Magnetic proximity switch
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More

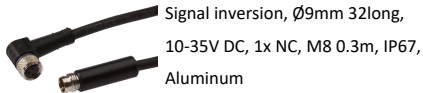
IPF Product Group	221 pneumatic cylinder sensors (low cost / reed)
packaging dimensions	120 x 100 x 14 mm
gross weight	13 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

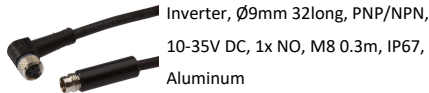


Extract accessories program

VYR90270



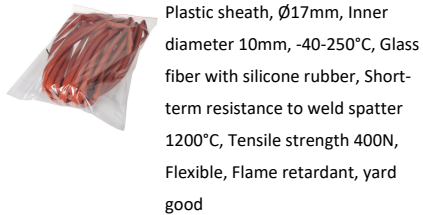
VYR91170



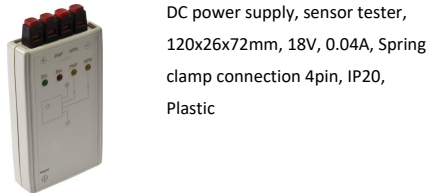
AV000142



AY000141



VY000004



NG530002



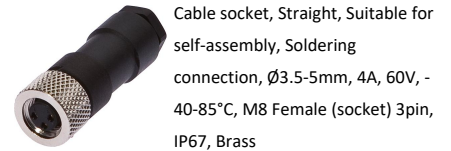
AY98C293



VK003070



VK003074



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.