

**MZR90185**
**MAGNETIC 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


**MECHANICAL FEATURES**

Ambient temperature	-25 °C ... 75 °C
Degree of protection (IP)	IP67
Design	Cylinder plain
Housing material	Stainless steel
Increased ambient temperatures > 80°C	-
Metal housing	+
Mounting access, cylinder groove	From the top
Sensor diameter	9 mm
Sensor length	22 mm
Sensor surface position	Center of the device
Strong vibration / motion	+
Version	9mm round

**ELECTRICAL FEATURES**

Cross/short circuit identification possible	-
Hysteresis	1 mm
Low sensitivity	-
Low switching hysteresis	+
Magnetic sensitivity	2.8 mT
No-load current	15 mA
Number of pins	3
Number of switching outputs	1
Operating voltage	10 V ... 30 V
Rated switching current	150 mA
Reed contact	-
Relative repeat accuracy	0.1 mm
Reverse polarity protection	+
Sensor surface (active)	Middle area
Setting via teach-in	-
Short-circuit protection	+
Suitable for safety functions	-
Switching frequency	1000 Hz
Two switching points	-

## ELECTRICAL FEATURES

Type of electrical connection	Connector M8
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With monitoring function of downstream devices	-

## OTHER FEATURES

Cylinder sensors	+
Harsh environmental conditions	+
Metallic sensor surface	-
Oil and cooling lubricants	+
Short travel path	-

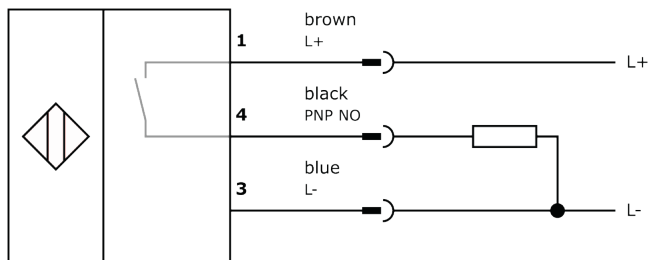
## Other

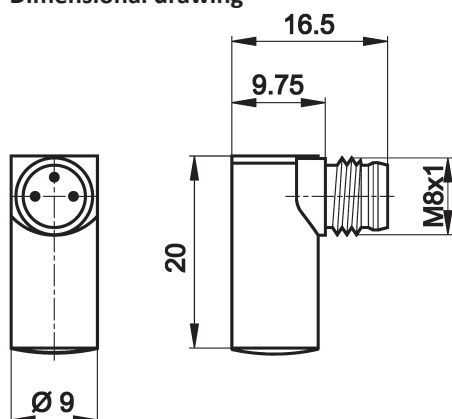
Packaging dimensions	100mm x 17.0mm x 120mm
Shipping weight	0.01kg
Tariff code	85365019

## Classification

ipf product group	220
eClass 8.0	27270105
eClass 9.0	27270105
eClass 9.1	27270105
ETIM-5.0	EC002544
ETIM-6.0	EC002544
ETIM-7.0	EC002544

## Connection



**Dimensional drawing****Installation**

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

**Disposal****Software**

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: [www.ipf-electronic.com](http://www.ipf-electronic.com)

**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.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.