



# Magnetic cylinder sensor

## MZT6 series

### DC 3-wire, T-Slot cylinder

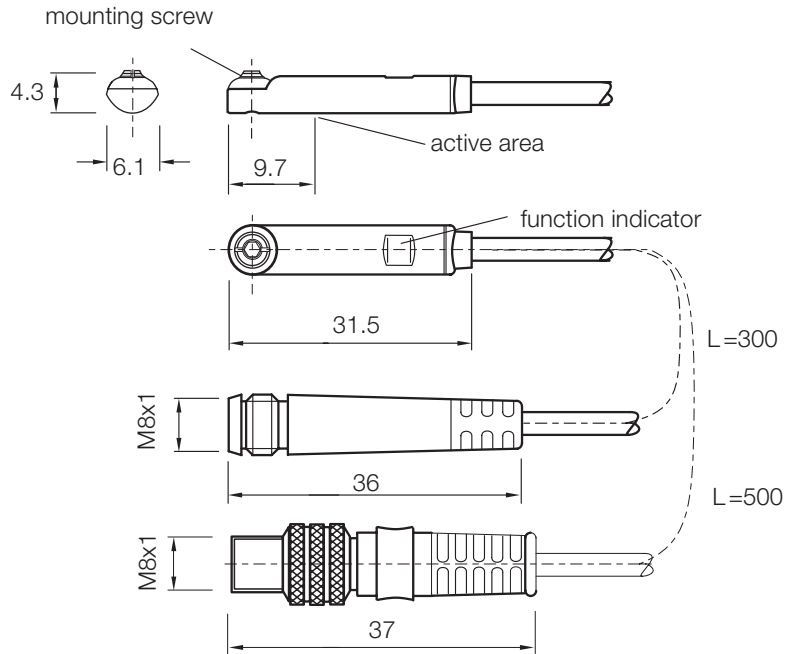
#### Features



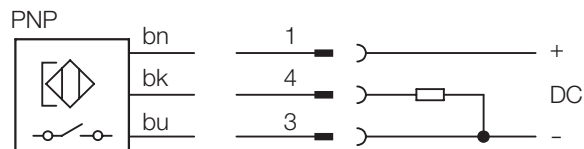
- ▶ Non-contact detection of piston position in pneumatic cylinders
- ▶ **Mountable from the top**
- ▶ For all common used round-slot-cylinder e.g. Festo, SMC
- ▶ Plastic housing with nickel silver bushing and hexagon socket/sloted screw
- ▶ Connection cable or connector on cable
- ▶ Enclosure rating IP 67
- ▶ LED function indicator
- ▶ Magneto-resistive element

#### Accessories

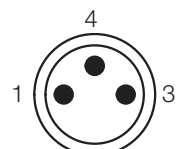
Round connector



#### Connection diagramm









Wire colour	Contact	Assignment
bn brown	1	+ V DC
bk black	4	NO
bu blue	3	- V DC



## Electrical and mechanical Data

<b>Operating voltage</b> $U_b$	10 ... 30 V DC	<b>Wire-break protection</b>	yes
<b>Ripple</b> $U_{ss}$	$\leq 10\%$ von $U_b$	<b>Short-circuit protection (pulsed)</b>	yes
<b>Voltage drop</b> $U_d$	$\leq 2.5$ V	<b>Reverse polarity protection</b>	yes
<b>Power consumption</b> (without load)	$\leq 10$ mA	<b>Power-up pulse suppression</b>	yes
<b>Continuous current</b> $I_a$	$\leq 100$ mA	<b>Enclosure rating</b> to EN 60529	IP 67
<b>Hysteresis</b> H typ.	min. 0.5 mT	<b>Shock and vibration stress</b>	30 g, 11 ms 10 to 55 Hz, 1 mm
<b>Repeatability</b> R ( $U_b$ and $T_a$ constant)	$\leq 0.1$ mT	<b>Ambient temperature</b> $T_a$	- 25 ... + 75 °C
<b>EMC</b>	to EN 60 947-5-2	<b>Housing material</b>	Plastic
		<b>Connection cable 2 m</b>	PVC, 3 x 0.14 mm <sup>2</sup>
		<b>Connection cable with M8x1 mm</b>	PUR

## Selection table

Response sensitivity in mT	Sensing face	Switching output	Output function	Switching frequency in Hz	Connection	Type	Order number
2.8		PNP		5000	Cable 2 m	MZT6-03VPS-KW0	1023970
2.8		PNP		5000	Cable w. M8 x 1 mm	MZT6-03VPS-KP0	1023971
2.8		PNP		5000	Cable w. M8 x 1 mm with knurled screw	MZT6-03VPS-KR0	1023972