

## MZT8

### Magnetic cylinder sensor

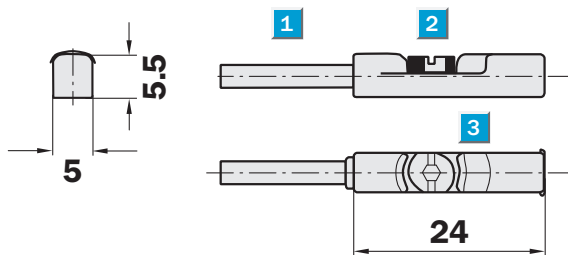


for T-slot-cylinders

Magnetic cylinder sensor

- Very compact/short housing design 24 mm
- Easy handling – “one hand” mounting possible
- Undetachably mounting screw
- Suitable for harsh environment – resistances and tightness

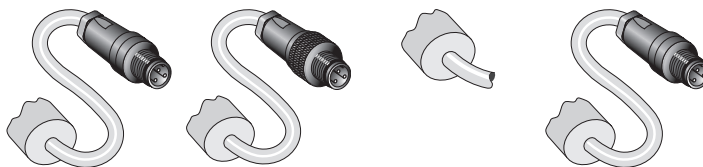
#### Dimensional drawing



- 1 Connection
- 2 Mounting screw
- 3 LED

#### Connection types

MZT8-03VPS-KPO	MZT8-03VPS-KRO	MZT8-03VPS-KUB	MZT8-03VPS-KQO
MZT8-03VNS-KPO	MZT8-03VNS-KRO	MZT8-03VPS-KUO	
MZT8-03VPO-KPO		MZT8-03VNS-KUO	
		MZT8-03VPO-KUO	

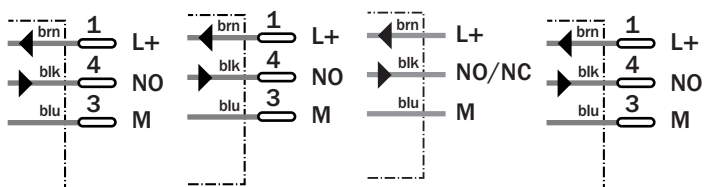


M8, 3-pin

M8, 3-pin, w/kn. scr.

3 x 0.14 mm<sup>2</sup>

M12, 3-pin



Technical data		MZT8-	03VPS-KPO	03VPS-KUO	03VPS-KRO	03VPS-KQO	03VPS-KUB	03VNS-KPO	03VNS-KUO	03VNS-KRO	03VPO-KPO	03VPO-KUO
Sensing face	Front											
<b>Electrical configuration</b>	DC 3-wire											
<b>Supply voltage <math>V_s</math></b>	10 ... 30 V DC											
Response sensitivity	2.6 mT											
Overrun distance typ.	3 mm											
Ripple $U_{pp}$	≤ 10 %											
Voltage drop $U_d$	≤ 2.2 V											
Power consumption	≤ 10 mA <sup>1)</sup>											
<b>Continuous current <math>I_a</math></b>	≤ 200 mA											
Hysteresis H typ.	> 0.5 mT											
Repeatability R	≤ 0.1 mT ( $U_b$ and $T_a$ constant)											
EMC	According to EN 60947-5-2											
<b>Switching output</b>	PNP											
	NPN											
<b>Output function</b>	Normally open											
	Normally closed											
<b>Connection type</b>												
Cable with plug	M8, 3-pin, PUR, 0.3 m											
	M12, 3-pin, PUR, 0.3 m											
	M8, 3-pin, w. knurled screws, PUR, 0.5 m											
Cable	PUR, 5 m											
	PUR, 2 m											
<b>Enclosure rating</b>	IP 69K <sup>2)</sup>											
	IP 67/IP 68											
Max. switching frequency	1,000 Hz											
<b>Wire-break protection</b>	✓											
<b>Short-circuit protection</b>	✓ <sup>3)</sup>											
<b>Reverse polarity protection</b>	✓											
<b>Power-up pulse suppression</b>	✓											
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm											
Ambient temperature $T_a$	-30 °C ... +80 °C											
<b>Housing material</b>	Plastic (PA12)											

1) Without load  
 2) According to DIN 40050 part 9  
 3) Pulsed

Order information	
Type	Order no.
MZT8-03VPS-KPO	1044458
MZT8-03VPS-KUO	1044469
MZT8-03VPS-KRO	1044459
MZT8-03VPS-KQO	1044460
MZT8-03VPS-KUB	1044470
MZT8-03VNS-KPO	1044932
MZT8-03VNS-KUO	1044934
MZT8-03VNS-KRO	1044935
MZT8-03VPO-KPO	1044930
MZT8-03VPO-KUO	1044931

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