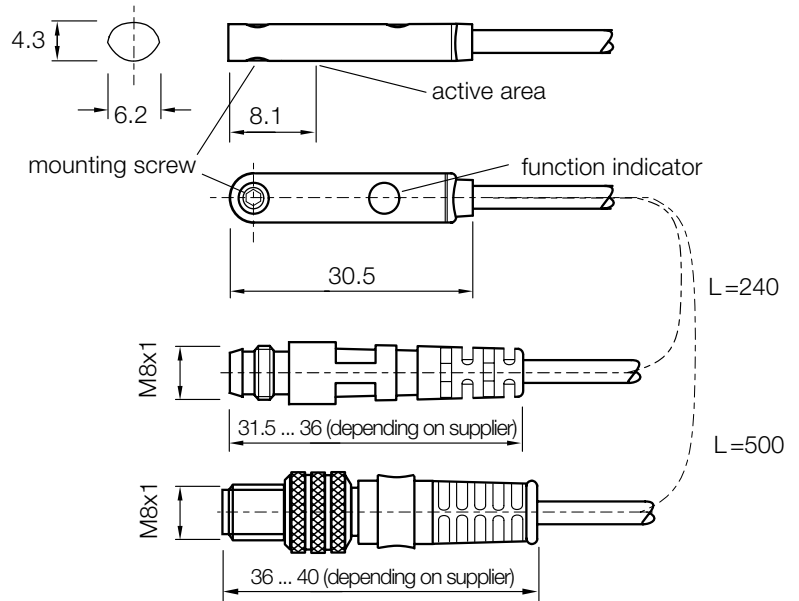


Magnetic cylinder sensor

MZT1 series

DC 3-wire, T-Slot cylinder

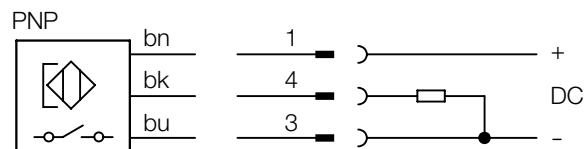


Features

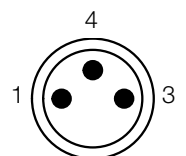


- Non-contact detection of piston position in pneumatic cylinders
- **Mountable from the top**
- For all common used T-slot cylinder e.g. Festo, SMC
- Connection cable or connector on cable
- Enclosure rating IP 67
- LED function indicator
- Magneto-resistive element

Connection diagramm



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



Accessories

- Round connector
- Mounting adapter

Electrical and mechanical data

Operating voltage U_b	10 ... 30 V DC	Wire-break protection	yes
Ripple U_{ss}	$\leq 10\%$ of U_b	Short-circuit protection	yes
Voltage drop U_d	≤ 2.5 V	(pulsed)	
Power consumption (without load)	≤ 10 mA	Reverse polarity protection	yes
Continuous current I_a	≤ 100 mA	Power-up pulse suppression	yes
Hysteresis H	min. 0.5 mT	Enclosure rating to EN 60529	IP 67
Repeatability R (U_b and T_a constant)	≤ 0.1 mT	Shock and vibration stress	30 g, 11 ms 10 to 55 Hz, 1 mm
EMC	to EN 60 947-5-2	Ambient temperature T_a	- 25 ... + 75 °C
		Housing material	Plastic
		Connection cable 2 m	PVC, 3 x 0.14 mm ²
		Connection cable with M8x1 mm	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	MZT1-03VPS-KW0	1016809
2.8		PNP		5000	Cable 5 m	MZT1-03VPS-KUB	1018999
2.8		PNP		5000	Cable w. M8 x1 mm	MZT1-03VPS-KP0	1016910
2.8		PNP		5000	Cable w. M8 x 1 mm with knurled screw	MZT1-03VPS-KR0	1019005
2.8		NPN		5000	Cable 2 m	MZT1-03VNS-KU0	1023009
2.8		NPN		5000	Cable w. M8 x 1 mm	MZT1-03VNS-KP0	1017851

SICK

Great Britain
Erwin Sick Ltd.
Waldkirch House
39 Hedley Road, St. Albans
Hertfordshire AL 1 5BN
☎ +44 17 27-83 11 21
Fax +44 17 27-85 67 67
info@sick.co.uk

USA
SICK, Inc.
6900 West 110th Street
Bloomington, MN 55438
☎ +1 (952) 9 41-67 80
Fax +1 (952) 9 41-92 87
WATS: 1-800-325-7425
info@sickusa.com

Australia
SICK PTY LTD
P.O. Box 214
899 Heidelberg Road
Ivanhoe, Vic. 3079, Australia
☎ +61 39 49 74 10 0
1800 33 48 02 - toll free
Fax +61 39 49 71 18 7
sales@sick.com.au