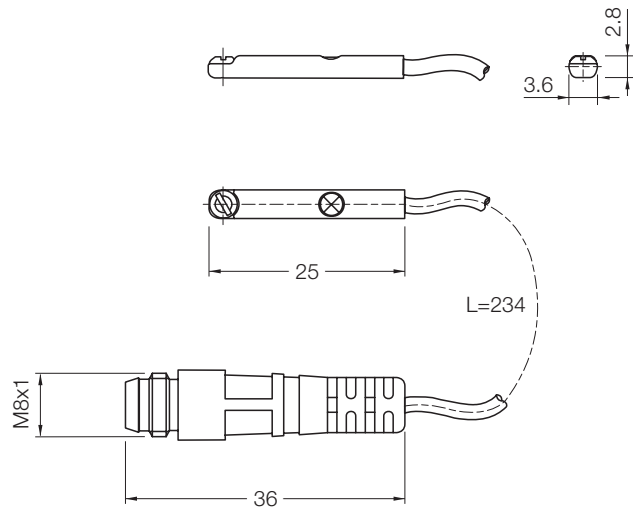


MZN1

Magnetic cylinder sensor



Features

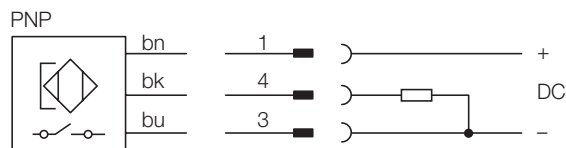


- ▶ Non-contact detection of piston position in pneumatic cylinders
- ▶ **Mountable from the top**
- ▶ For all common used round-slot cylinder e.g. Festo, SMC
- ▶ Plastic housing with clamping screw
- ▶ Connection cable or connector on cable
- ▶ Enclosure rating IP 67
- ▶ LED status indicator

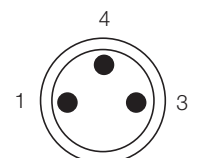
Accessories

Round connector

Connection diagram






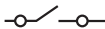
Wire colour	Contact	Assignment
bn brown	1	+ VDC
bk black	4	NO
bu blue	3	- VDC



Electrical and mechanical data

Operating voltage U_b	10 ... 30 V DC	Short-circuit protected (pulsed)	yes
Ripple U_{pp}	$\leq 10\%$ of U_b	Reverse-polarity protected	yes
Voltage drop U_d	$\leq 2,5$ V DC	Enclosure rating to DIN 40050	IP 67
Power consumption (inactive)	≤ 8 mA	Shock and vibration stress	30 g, 11 ms 10 to 55 Hz, 1 mm
Continuous current I_a	≤ 70 mA	Ambient temperature T_a	- 25 ... + 75 °C
Switching delay	≤ 0.1 ms	Housing material	PA
Hysteresis H typ.	≤ 1.5 mT	Connection cable 2 m	PUR 3 x 0.09 mm ²
Repeatability R	$\leq \pm 0.1$ mm	Connection cable with M8x1 mm	PUR
(U_b and T_a constant)			
EMC	to EN 60 947-5-2		

Selection table

Sensing face	Switching output	Output function	Switching frequency in Hz	Connection type	Type	Order number
	PNP		1000	Cable 2 m	MZN1-05VPS-KUO	1022053
	PNP		1000	Cable w. M 8 x 1 mm	MZN1-05VPS-KPO	1022054

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