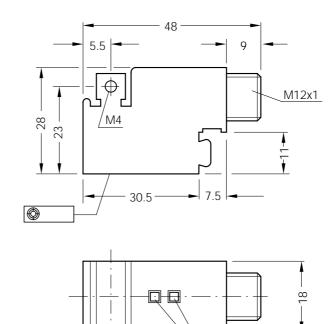


Magnetic cylinder sensors

MZ U2 series DC 3-wire, weld immune version

Dimensions in mm



LED

Features

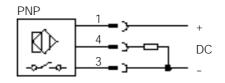
 Non-contact detection of piston position in pneumatic cylinders in weld field environments

CE

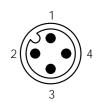
- Weld immune in all welding applications (AC, DC and medium frequency)
- ► Response sensitivity of interference field detector ≥ 2 mT
- The sensors locks the output during the welding process. When the welding process stops, the sensor updates the output accordingly
- Flexible mounting technique for different cylinder styles
- Solid metal housing in die-cast zinc, optional with teflon coating
- Actuating speed < 1m/s</p>
- 2 LED's

Status indicator:	yellow	
Function indicator:	green	

Connection diagram



Assignment	
+ V DC	
NO	
- V DC	
free	



Electrical and mechanical data

Operating voltage U _b	10 30 V DC	Wire-break protection	yes
Ripple U _{pp}	\leq 10% of U _b	Short-circuit protection	yes
Voltage drop U _d	≤ 2.0 V	(pulsed)	
	at I _a max.	Reverse polarity protection	yes
Power consumption	≤ 18 mA (unattenuated)	Power-up pulse suppression	yes
(without load)	\leq 32 mA (attenuated)	Enclosure rating to DIN 40050	IP 67
Continuous current la	≤ 300 mA	Shock and vibration	30 g, 11 ms
Time delay before	≤ 20 ms	stress	10 to 55 Hz, 1 mm
availability t _v		Ambient temperature T _a	- 25 + 75 °C
Hysteresis H	≤ 1.5 mm	Housing material	Die-cast zinc, optional
Repeatability R	≤ 0.1 mm	-	with teflon coating
(U _b and T _a constant)			
EMC	to EN 60 947-5-2		

Selection table

Response sensitivity in mT	Sensing face	Switching output	Output function	Switching frequency f in Hz	Connection	Туре	Order number
3	Ø	PNP	-0~-0-	40	Connector M12x1 mm	MZU2-03VPS-DCM	1017450
3	٢	PNP	-0~-0-	40	Connector M12x1 mm	MZU2-03VPS-TCM*	1017451

* with teflon coating

Accessories

Mounting clamp for pneumatic cylinder sensor MZU2

Mounting clamp:	US1
Material:	die-cast zinc
Order-No.:	4030922

Mounting clamp:US1TMaterial:die-cast zinc with teflon coatingOrder-No.:4031632

suitable for the following cylinders:

Tie-rod cylinder: tie-rod diameter Ø 4 .. 20 mm

