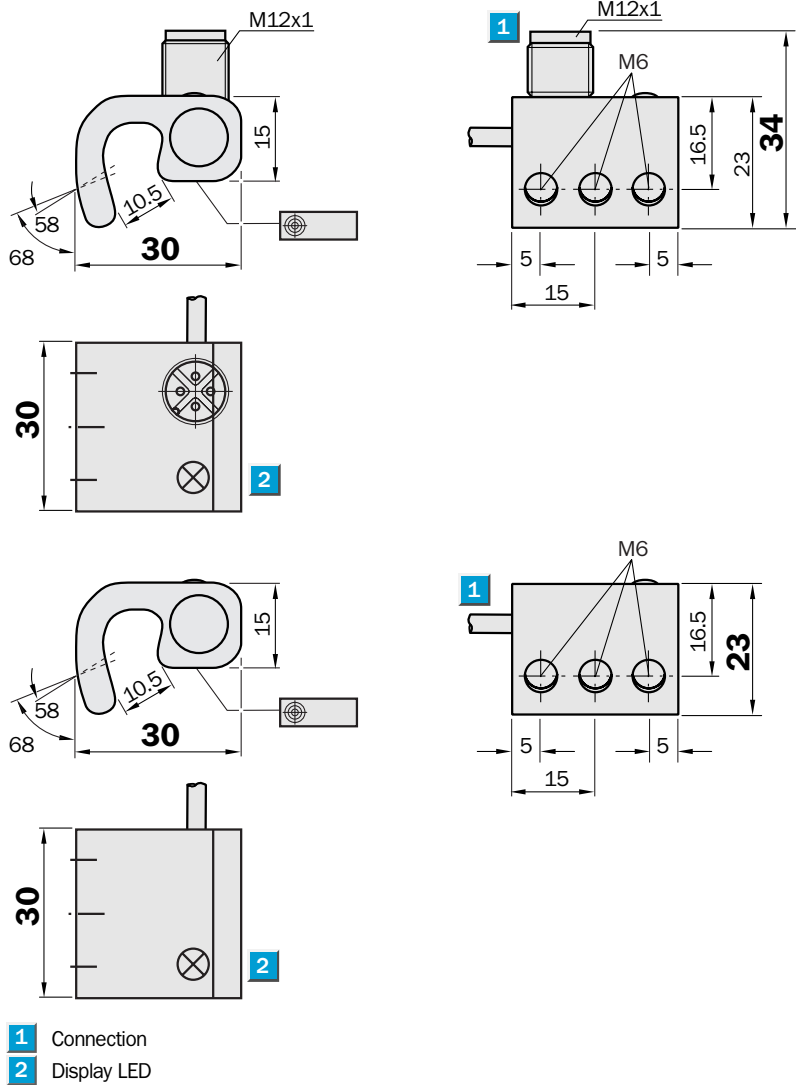


for tie-rod cylinders
Magnetic cylinder sensor

- Tie-rod mounting for max. rod diameter of 10 mm
- High repeat accuracy
- Solid aluminium housing with integrated mounting
- Cable or connector
- LED status indicator

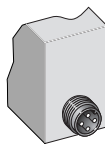
Dimensional drawing



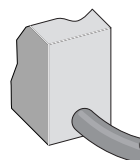
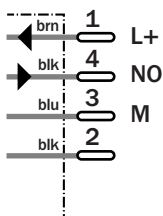
Connection type

MZZ1-03VNS-ACO
 MZZ1-03VPS-ACO

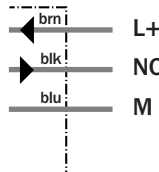
MZZ1-03VPS-AUO



M12, 4-pin



3 x 0.25 mm²



See chapter Accessories

Connector, M12, 4-pin

Technical specifications		MZZ1-	03VNS-ACO	03VPS-ACO	03VPS-AUO							
Sensing face	Front											
Electrical configuration	DC 3-wire											
Supply voltage V_s	DC 10 ... 30 V											
Response sensitivity	3 mT											
Ripple U_{pp}	$\leq 10\%$ ¹⁾											
Voltage drop U_d	$\leq 1.5\text{ V}$ ²⁾											
Power consumption	$\leq 10\text{ mA}$ ³⁾											
Continuous current I_a	$\leq 300\text{ mA}$											
Time delay before availability t_v	$\leq 2\text{ ms}$											
Hysteresis H, of s_r	$\leq 1\text{ mm}$											
Repeatability R	$\leq 0.1\text{ mm}$ (U_b and T_a constant)											
EMC	According to EN 60947-5-2											
Switching output	NPN											
	PNP											
Output function	Normally open											
Connection type	Connector, M12, 4-pin											
	Cable, PVC/PUR, 2 m											
Enclosure rating	IP 67 ⁴⁾											
Max. switching frequency	5,000 Hz											
Wire-break protection	✓											
Short-circuit protection	✓ ⁵⁾											
Reverse polarity protection	✓											
Power-up pulse suppression	✓											
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm											
Ambient temperature T_a	-25 °C ... +75 °C											
Housing material	Aluminium, plastic											

1) of U_b 2) at I_a max

3) without load

4) according to EN 60529

5) (pulsed)

Ordering information

Type	Order no.
MZZ1-03VNS-ACO	7 900 609
MZZ1-03VPS-ACO	7 900 608
MZZ1-03VPS-AUO	7 900 606