

Technical specifications		MZZ1-	03VNS -ACO	03VPS -ACO	03VPS -AU0						
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	$\leq 1.5 V$ 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_v	$\leq 1 \text{ mm}$										
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 max³⁾ without load⁴⁾ according to EN 60529⁵⁾ (pulsed)**Ordering information**

Type	Order no.
MZZ1-03VNS-ACO	7 900 609
MZZ1-03VPS-ACO	7 900 608
MZZ1-03VPS-AU0	7 900 606