

Technical specifications		MZF1-	03VPS -KP0	03VPS -KQ0	03VPS -KUB	03VPS -KU0						
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	$\leq 2\text{ V}$ ²⁾											
Power consumption	$\leq 10\text{ mA}$ ³⁾											
Continuous current I_a	$\leq 100\text{ mA}$											
Time delay before availability t_d	$\leq 2\text{ ms}$											
Hysteresis H , of s_v	$\leq 1.5\text{ mm}$											
Repeatability R	$\leq 0.2\text{ mm}$ (U_b and T_a constant)											
EMC	According to EN 60947-5-2											
Switching output	PNP											
Output function	Normally open											
Connection type	Cable with plug, M8, 3-pin, PUR											
	Cable with plug, M12, 3-pin, PVC											
	Cable, PVC/PUR, 5 m											
	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	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.
MZF1-03VPS-KP0	7 900 597
MZF1-03VPS-KQ0	1 016 406
MZF1-03VPS-KUB	7 903 147
MZF1-03VPS-KU0	7 900 596