

MZF1

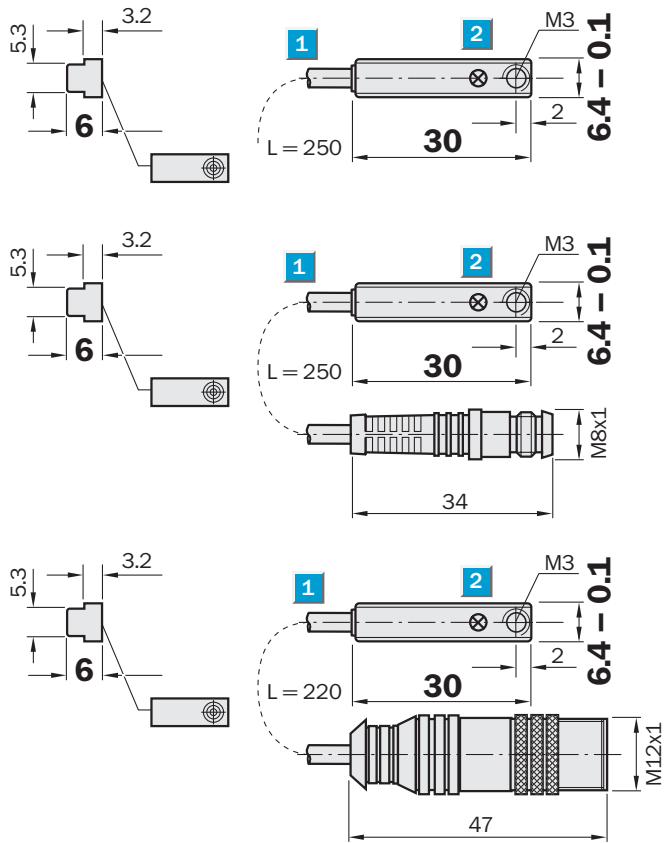
Magnetic cylinder sensor



- High repeat accuracy
- Connection cable or connector on cable
- Enclosure rating IP 67
- LED status indicator
- Magneto-resistive element



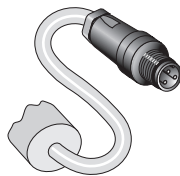
Dimensional drawing



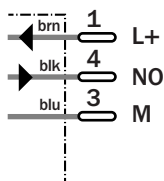
- 1 Connection
- 2 2 Display LED

Connection types

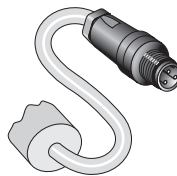
MZF1-03VPS-KP0



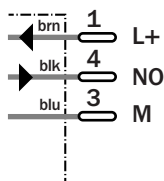
M8, 3-pin



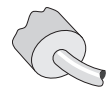
MZF1-03VPS-KQ0



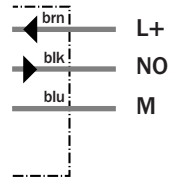
M12, 3-pin



MZF1-03VPS-KUB
MZF1-03VPS-KU0



3 x 0.25 mm²



Technical data		MZF1-	03VPS -KPO	03VPS -KQ0	03VPS -KUB	03VPS -KU0						
Sensing face	Front											
Electrical configuration	DC 3-wire											
Supply voltage V_s	10 ... 30 V DC											
Response sensitivity	3 mT											
Ripple V_{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_v	$\leq 2\text{ ms}$											
Hysteresis H, of s_r	$\leq 1.5\text{ mm}$											
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)

Order informations	
Type	Order no.
MZF1-03VPS-KPO	7900597
MZF1-03VPS-KQ0	1016406
MZF1-03VPS-KUB	7903147
MZF1-03VPS-KU0	7900596

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