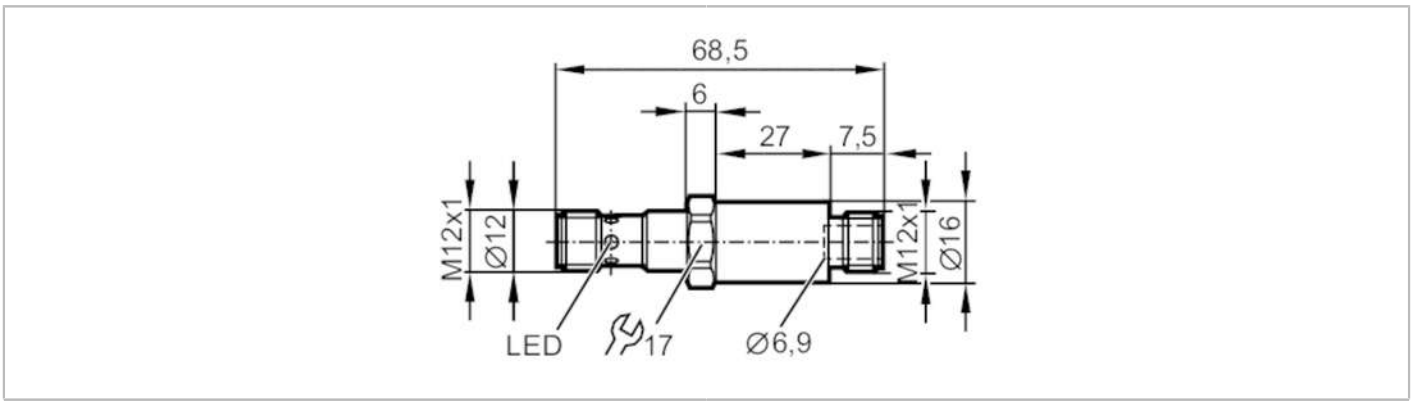
M9H210

Position sensor

M9B2002-ARKG/B/AM/US



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open
Dimensions	[mm]	M12 x 1 / L = 68.5
Application		
Special feature		Gold-plated contacts
Application		lubricant distributor with plunger
Media		detects ferrous metals
Pressure rating	[bar]	350
Electrical data		
Operating voltage	[V]	10...36 DC
Rated insulation voltage	[V]	60
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	300
Outputs		
Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	5.9
Minimum load current	[mA]	5
Max. leakage current	[mA]	0.8
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	10
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62

M9H210

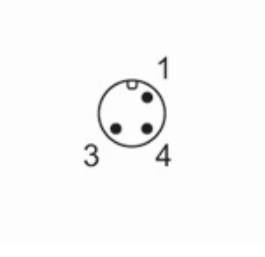
Position sensor

M9B2002-ARKG/B/AM/US

Accuracy / deviations			
Hysteresis	[% of Sr]	3...15	
Operating conditions			
Ambient temperature	[°C]	-25...85	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m 80...2000 MHz
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V 0,15...80 MHz
		EN 61000-4-8	30 A/m
		EN 55011	class B
Vibration resistance		EN 60068-2-6 Fc	50x 20 g / 10...3000 Hz -20 °C
		EN 60068-2-6 Fc	50x 20 g / 10...3000 Hz +50 °C
Shock resistance		EN 60068-2-27 Ea	3 x 100 g 11 ms / -25 °C
		EN 60068-2-27 Ea	3 x 100 g 11 ms / +85 °C
Continuous shock resistance		EN 60068-2-27 Ea	4000 x 40 g 6 ms / -20 °C / 50 °C
MTTF	[years]	828	
Mechanical data			
Weight	[g]	60.2	
Mounting		flush mountable	
Dimensions	[mm]	M12 x 1 / L = 68.5	
Thread designation		M12 x 1	
Materials		sensing face: stainless steel (1.4404 / 316L); housing: stainless steel (1.4404 / 316L); LED window: PEI	
Tightening torque	[Nm]	< 10	
Process connection		threaded connection M12 x 1 external thread	
Displays / operating elements			
Display		switching status	LED, yellow
Remarks			
Pack quantity		1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



M9H210

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M9B2002-ARKG/B/AM/US

Connection

