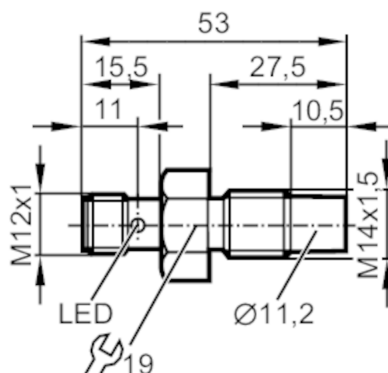


M9H200



Pressure-resistant position sensor for hydraulic cylinders

M9B3002BBPKG/B/AM/500 /US



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M14 x 1.5 / L = 53

Application

Special feature	Full-metal housing
Application	hydraulic cylinders
Media	detects ferrous metals
Min. bursting pressure [bar]	2000
Pressure rating [bar]	500

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 23
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	1.6
Max. leakage current [mA]	0.1
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	1000
Short-circuit protection	yes
Short-circuit proof	yes
Overload protection	yes

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Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62
Accuracy / deviations		
Hysteresis	[% of Sr]	< 15
Switch point drift	[% of Sr]	10
Repeatability	[% of Sr]	10
Operating conditions		
Pressure peak	[bar]	1000
Ambient temperature	[°C]	-25...85
Protection		IP 65; IP 68; IP 69K
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
	DIN ISO 11452-5	100 V/m
Vibration resistance	EN 60068-2-6 Fc	20 g 50 sweep cycles, 1 octave per minute, in 3 axes / 10...3000 Hz -20...50 °C
Shock resistance	EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes / -40...85 °C
Continuous shock resistance	EN 60068-2-27 Ea	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes / -20...50 °C
MTTF	[years]	2130
UL approval	UL Approval no.	C005
Mechanical data		
Weight	[g]	41.8
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M14 x 1.5 / L = 53
Thread designation		M14 x 1.5
Materials		housing: stainless steel stainless steel (1.4404 / 316L); O-ring: FKM; LED window: PEI
Tightening torque	[Nm]	< 25
Full-metal housing		yes
Displays / operating elements		
Display	switching status	1 x LED, yellow
Remarks		
Pack quantity		1 pcs.

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Electrical connection - plug

Connector: 1 x M12; coding: A



Connection

