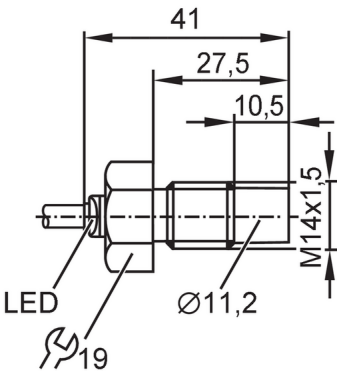


M9H206



Cylinder sensor

M9B3002BBPKG/B/AM/500/0,5M/US



Product characteristics		
Electrical design	PNP	
Output function	normally open	
Sensing range [mm]	1.8	
Housing	Threaded type	
Dimensions [mm]	M14 x 1.5 / L = 41	
Application		
Application	Detects ferrous metals; Hydraulic cylinder	
Min. burst pressure	2000 bar	200 MPa
Pressure rating	500 bar	50 MPa
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 proof	yes	
Overload protection	yes	
Monitoring range		
Sensing range [mm]	1.8	
Real sensing range Sr [mm]	1.8 ± 10 %	
Operating distance [mm]	0...1.46	
Accuracy / deviations		
Hysteresis [% of Sr]	< 15	

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Switch-point drift	[% of Sr]	10
Repeatability	[% of Sr]	10

Operating conditions		
Pressure peak	1000 bar	100 MPa
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
	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 per frequency; 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]	925

Mechanical data		
Weight	[g]	72.8
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M14 x 1.5 / L = 41
Thread designation		M14 x 1.5
Material		housing: stainless steel stainless steel (1.4404 / 316L); O-ring: FKM
Tightening torque	[Nm]	< 25

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Remarks		
Pack quantity		1 pcs.

Electrical connection - plug

Cable: 0.5 m, PUR

Connector: 1 x M12; coding: A; Contacts: 4; Locking: Knurled nut, rotatable



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Connection



Diagrams and graphs

