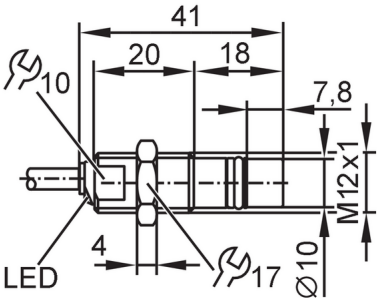
MFH207

Cylinder sensor

MFB3002BAPKG/B/AM/500 /ZH



Product characteristics			
Electrical design		PNP	
Output function		normally closed	
Sensing range	[mm]	1.8	
Housing		threaded type	
Dimensions	[mm]	M12 x 1 / L = 41	
Application			
Special feature		Full-metal housing	
Application		detects ferrous metals; hydraulic cylinders	
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 closed	
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	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	1.8	
Accuracy / deviations			
Hysteresis	[% of Sr]	< 15	
Switch point drift	[% of Sr]	10	
Repeatability	[% of Sr]	10	

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Operating conditions			
Pressure peak		1000 bar	100 MPa
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]	925	
UL approval		Ta	-25...80 °C
		UL approval no.	C006
Mechanical data			
Weight	[g]	81	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M12 x 1 / L = 41	
Thread designation		M12 x 1	
Materials		housing: stainless steel; O-ring: FKM; supporting ring: PTFE	
Tightening torque	[Nm]	< 25	
Full-metal housing		yes	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 1 x M12	
Remarks			
Pack quantity		1 pcs.	

MFH207

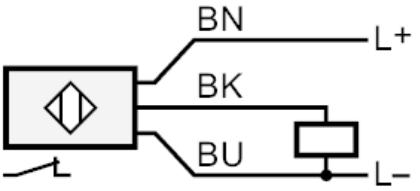
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Electrical connection

Cable: 2 m, PUR, Ø 4.9 mm; 3 x 0.34 mm²

Connection



	Core colours :
BK =	black
BN =	brown
BU =	blue

Diagrams and graphs

