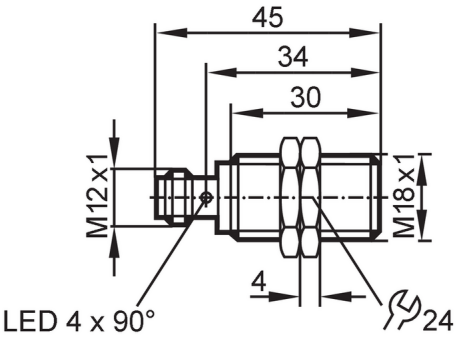
IGC258

Inductive full-metal sensor

IGB3008BBPKG/AM/V4A/US-104



Product characteristics			
Electrical design		PNP	
Output function		normally open	
Sensing range	[mm]	8	
Housing		threaded type	
Dimensions	[mm]	M18 x 1 / L = 45	
Application			
Special feature		Gold-plated contacts; Increased sensing range; Full-metal housing	
Application		Industrial applications / factory automation; Use in machine tools, coolants and lubricants	
Pressure rating		100 bar	10 MPa
Note on pressure rating		sensing face	
Electrical data			
Operating voltage	[V]	10...30 DC	
Current consumption	[mA]	< 10	
Protection class		III	
Reverse polarity protection		yes	
Outputs			
Electrical design		PNP	
Output function		normally open	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	100	
Switching frequency DC	[Hz]	100	
Short-circuit protection		yes	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	8	
Real sensing range Sr	[mm]	8 ± 10 %	
Operating distance	[mm]	0...6.48	
Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminium: 0.5 / copper: 0.2	

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Hysteresis	[% of Sr]	3...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-40...85	
Protection		IP 65; IP 66; IP 67; 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
Impact resistance			1 J
Vibration resistance		EN 60068-2-6 Fc	20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes
Shock resistance		EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance		EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature change		EN 60068-2-14 Na	TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles
MTTF	[years]	1244	
Embedded software included		no	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval no.	A012
		File number UL	E174191
Mechanical data			
Weight	[g]	44	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M18 x 1 / L = 45	
Thread designation		M18 x 1	
Materials		stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PEI; lock nuts: brass white bronze coated	
Tightening torque	[Nm]	50	
Full-metal housing		yes	
Displays / operating elements			
Display		switching status	4 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

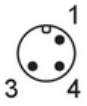
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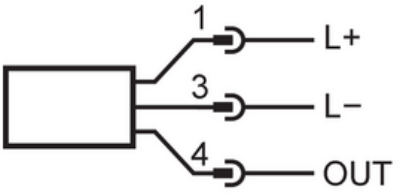
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 3, gold-plated



Connection



1	L+	
3	L-	
4	OUT	DO (NO)

DO: digital output; NO: normally open