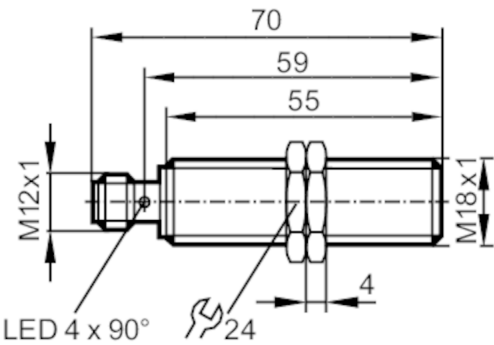




Inductive sensor

IGA3008BBPKG/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 = 70
Application		
Special feature	Gold-plated contacts; Increased sensing range; Full-metal housing	
Application	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	



Inductive sensor

IGA3008BBPKG/AM/V4A/US-104

Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminium: 0.5 / copper: 0.2	
Hysteresis [% of Sr]	3...15	
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
	power supply	Limited Voltage/Current
	UL approval no.	A012
	File number UL	E174191
Mechanical data		
Weight [g]	55.4	
Housing	threaded type	
Mounting	flush mountable	
Dimensions [mm]	M18 x 1 / L = 70	
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.	



Inductive sensor

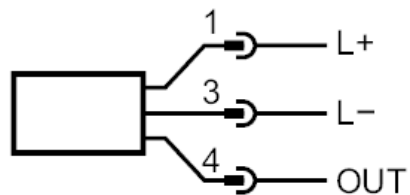
IGA3008BBPKG/AM/V4A/US-104

Electrical connection - plug

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



Connection



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

DO: digital output; NO: normally open