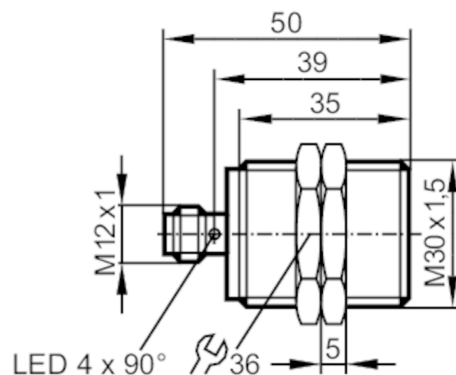




Inductive full-metal sensor

IIB3015BBPKG/AM/V4A/US-104



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	15
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 50

Application

System	gold-plated contacts; Increased sensing range; Full-metal housing	
Application	Oils and coolants	
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]	50
Short-circuit protection	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	15
Real sensing range S_r [mm]	$15 \pm 10 \%$
Operating distance [mm]	0...12.15

IIC233



Inductive full-metal sensor

IIB3015BBPKG/AM/V4A/US-104

Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.5 / copper: 0.2	
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 per frequency; 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 changes		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		yes	
UL approval	Ta		-25...70 °C
	Enclosure type		Type 1
	voltage supply		Limited Voltage/Current
	UL approval number		A012
	File number UL		E174191
Mechanical data			
Weight [g]		115	
Housing		Threaded type	
Mounting		flush mountable	
Dimensions [mm]		M30 x 1.5 / L = 50	
Thread designation		M30 x 1.5	
Material		stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: brass white bronze coated	
Tightening torque [Nm]		80	
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.	

IIC233

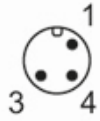


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Electrical connection - plug

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



Connection

