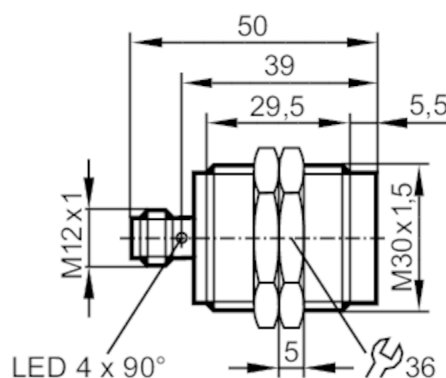




Inductive full-metal sensor

IIB3018QBPKG/AM/P/US-104



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	18
Dimensions [mm]	M30 x 1.5 / L = 50

Application

Application	constant cleaning with aggressive cleaning agents; regular cleaning processes
Pressure rating [bar]	100
Note on pressure rating	sensing face

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 20
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]	18
Real sensing range Sr [mm]	18 ± 10 %
Operating distance [mm]	0...14.58

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 1 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
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Hysteresis	[X01]	3...15
Switch point drift	[X01]	-10...10

Operating conditions

Ambient temperature	[°C]	0...100
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 emission	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 Nc	TA = 0°C; TB = 100°C; t1 = 30 min; t2 = < 10 s 50 cycles
MTTF	[ANN]	1385
Embedded software included		yes
UL approval	Ta	0...70 °C
	Enclosure type	Type 1
	подача напруги	Limited Voltage/Current
	UL Approval no.	A012
	File number UL	E174191

Mechanical data

Weight	[g]	99.8
Mounting		quasi flush
Dimensions	[mm]	M30 x 1.5 / L = 50
Thread designation		M30 x 1.5
Materials		housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)
Tightening torque	[Nm]	80

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Аксессуары

Items supplied		lock nuts: 2
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Remarks

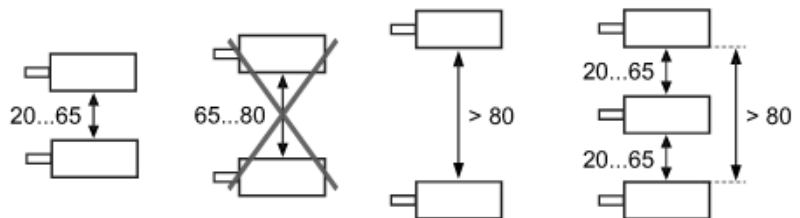
Pack quantity		1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A

**Connection****Diagrams and graphs**

IIT245

Inductive full-metal sensor

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