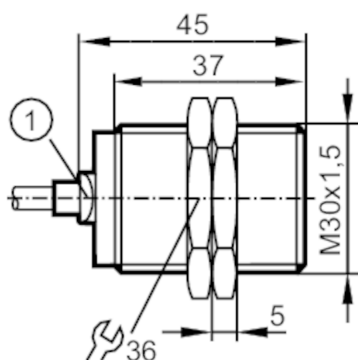


Inductive full-metal sensor

IIB3015BBPKG/AM/2M/MPPE



1 LED yellow



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	15
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 45

Application

Special feature	Halogen-free; Drag chain suitability; Increased sensing range; Full-metal housing
Application	constant cleaning with aggressive cleaning agents; regular cleaning processes
Pressure rating [bar]	10
Pressure rating [MPa]	1
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

Detection zone

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



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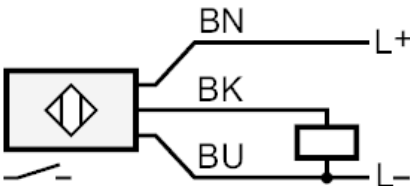
Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminium: 0.5 / copper: 0.2	
Hysteresis [% of Sr]		3...15	
Switch point drift [% of Sr]		-10...10	
Operating conditions			
Ambient temperature [°C]		0...100	
Protection		IP 65; IP 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		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 = 0 °C; TB = 100 °C; t1 = 30 min; t2 = < 10 s; 50 cycles	
Salt spray test		EN 60068-2-52 Kb severity level 5 (4 test cycles)	
MTTF [years]		1258	
Embedded software included		yes	
UL approval	Ta		0...75 °C
	Enclosure type		Type 1
	power supply		Limited Voltage/Current
	UL Approval no.		A027
	File number UL		E174191
Mechanical data			
Weight [g]		170.7	
Housing		threaded type	
Mounting		flush mountable	
Dimensions [mm]		M30 x 1.5 / L = 45	
Thread designation		M30 x 1.5	
Materials		stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PEI; lock nuts: stainless steel (316L/1.4404)	
Tightening torque [Nm]		80	
Drag chain suitability		yes	
Drag chain suitability	bending radius for flexible use		min. 10 x cable diameter
	bending cycles		> 5 Mio.
Full-metal housing		yes	
Displays / operating elements			
Display		switching status	LED, yellow



Inductive full-metal sensor

IIB3015BBPKG/AM/2M/MPPE

Accessories	
Items supplied	lock nuts: 2
Remarks	
Pack quantity	1 pcs.
Electrical connection	
Cable: 2 m, MPPE, Halogen-free, Ø 4.5 mm; 3 x 0.34 mm²	
Connection	



	Core colours
BK	black
BN	brown
BU	blue