



Inductive sensor

IGB3012-BPKG/M/V4A/10M/WH



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	12
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 62

Application

System	Increased sensing range
Application	Use in hygienic areas / regular cleaning processes

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 10
Protection class	II
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]	300
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	12
Real sensing range S_r [mm]	$12 \pm 10 \%$
Operating distance [mm]	0...9.72



Inductive sensor

IGB3012-BPKG/M/V4A/10M/WH

Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3	
Hysteresis [% of Sr]		1...20	
Switch-point drift [% of Sr]		-10...10	
Operating conditions			
Ambient temperature [°C]		0...100	
Protection		IP 68; IP 69K; ("COP")	
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 61000-4-5 Surge		0,5 kV
	EN 61000-4-6 HF conducted		10 V
	EN 55011		class B
MTTF [years]	1925		
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	voltage supply		Limited Voltage/Current
	File number UL		E174191
Mechanical data			
Weight [g]	379.2		
Housing	Threaded type		
Mounting	non-flush mountable		
Dimensions [mm]	M18 x 1 / L = 62		
Thread designation	M18 x 1		
Material	stainless steel (1.4404 / 316L); sensing face: PEEK		
Displays / operating elements			
Display	Switching status	4 x 90° LED, yellow	
Accessories			
Items supplied	lock nuts: 2		
Remarks			
Pack quantity	1 pcs.		

IGT209



Inductive sensor

IGB3012-BPKG/M/V4A/10M/WH

Electrical connection

Cable: 10 m, PVC, Ø 4.9 mm; 3 x 0.34 mm²

Connection



BK = Core colors :
BN = black
BU = brown
blue