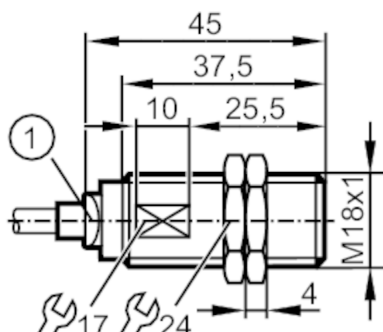


Inductive sensor

IGB2008BARKG/3M/PUR/UP



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	> 8
Housing	cylindrical
Dimensions [mm]	M18 x 1 / L = 45

Application

Application	Industrial applications / factory automation
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Electrical data

Operating voltage [V]	10...32 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]	5
Minimum load current [mA]	2
Max. leakage current [mA]	0.8; (24 V DC)
Permanent current rating of switching output DC [mA]	100
Short-time current rating of switching output [mA]	2200; (20 ms / 0,5 Hz)
Switching frequency DC [Hz]	400
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



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
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
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
Salt spray test	EN 60068-2-52 Kb		severity level 5 (4 test cycles)
Embedded software included	yes		
UL approval	Ta		-25...75 °C
	Enclosure type		Type 1
	power supply		Limited Voltage/Current
	File number UL		E174191
Mechanical data			
Weight	[g]	132.6	
Housing	cylindrical		
Mounting	flush mountable		
Dimensions	[mm]	M18 x 1 / L = 45	
Thread designation	M18 x 1		
Materials	brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated		
Tightening torque	[Nm]	25	
Displays / operating elements			
Display	switching status		LED, yellow
Accessories			
Items supplied	lock nuts: 2		
Remarks			
Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.		
Pack quantity	1 pcs.		

IGS319



Inductive sensor

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Electrical connection

Cable: 3 m, PUR, Ø 4 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.34 mm²

Connection



BK =

Core colours :
black