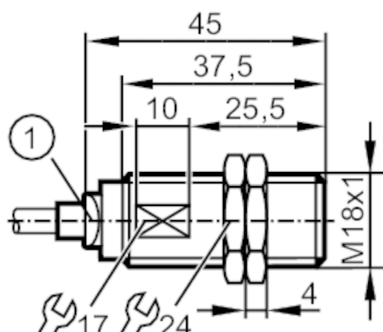


Inductive sensor

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



Inductive sensor

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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



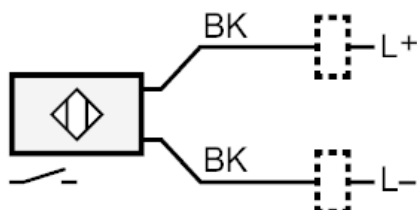
Inductive sensor

IGB2008BARKG/3M/PUR/UP

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