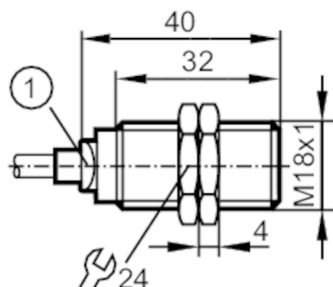


Inductive full-metal sensor

IGB3008BBPKG/AM/SC/2M/PUR



1 LED 2-colour yellow/green



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	8
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 40

Application

Special feature	Halogen-free; Drag chain suitability; Increased sensing range; Full-metal housing; Magnetic-field immune
Application	Use in welding applications
Pressure rating [bar]	20
Pressure rating [MPa]	2
Note on pressure rating	sensing face
Magnetic-field immune	yes

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]	2
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	8
Real sensing range S_r [mm]	$8 \pm 10 \%$
Operating distance [mm]	0...6.48



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Increased sensing range	yes
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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]	-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
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 = -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)
MTTF [years]	1188	
Embedded software included	yes	
UL approval	Ta	-25...75 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	A019
	File number UL	E174191

Mechanical data

Weight [g]	105	
Housing	threaded type	
Mounting	flush mountable	
Dimensions [mm]	M18 x 1 / L = 40	
Thread designation	M18 x 1	
Materials	stainless steel (316L/1.4404) anti-spatter; sensing face: stainless steel (316L/1.4404) anti-spatter; LED window: PEI; lock nuts: brass anti-spatter	
Tightening torque [Nm]	20	
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
	operation	LED, green

IGR212



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Accessories

Items supplied

lock nuts: 2

Remarks

Pack quantity

1 pcs.

Electrical connection

Cable: 2 m, PUR, Halogen-free, Ø 4.9 mm; not irradiated (can be recycled); 3 x 0.34 mm² / resistant to welding sparks

Connection



	Core colours
BK	black
BN	brown
BU	blue