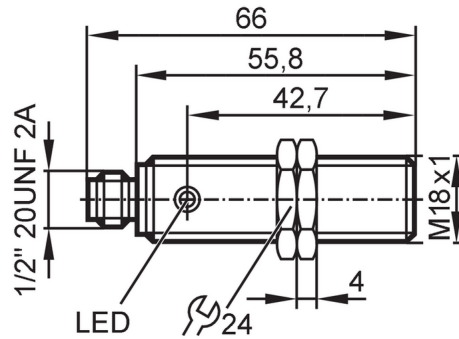


# IG0349



## Inductive sensor

IGB2005-BBOA/SL/LS-100AK/RT



### Product characteristics

Output function		normally closed
Sensing range	[mm]	5
Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 66

### Electrical data

Operating voltage	[V]	20...250 AC/DC
Protection class		I
Reverse polarity protection		no

### Outputs

Output function		normally closed
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC	[mA]	250; (350 (...50 °C))
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 AC	[Hz]	25
Switching frequency DC	[Hz]	100
Short-circuit protection		no
Overload protection		no

### Monitoring range

Sensing range	[mm]	5
Real sensing range Sr	[mm]	5 ± 10 %
Operating distance	[mm]	0...4.05

### Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	3...15

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Switch-point drift	[% of Sr]	-10...10
<b>Operating conditions</b>		
Ambient temperature	[°C]	-25...80
Protection		IP 67
<b>Tests / approvals</b>		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	609
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	File number UL	E174191
<b>Mechanical data</b>		
Weight	[g]	63
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 66
Thread designation		M18 x 1
Material		sensing face: PBT white; housing: brass white bronze coated; LED window: PBT white
Tightening torque	[Nm]	A = 4 mm: 13 Nm; B: 25 Nm
<b>Displays / operating elements</b>		
Display	Switching status	1 x LED, red
<b>Electrical connection</b>		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
<b>Accessories</b>		
Items supplied		lock nuts: 2
<b>Remarks</b>		
Remarks		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity		1 pcs.

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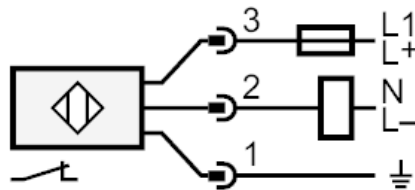


## Inductive sensor

IGB2005-BBOA/SL/LS-100AK/RT

### Electrical connection - plug

Connector: 1 x 1/2"; coding: C



Note miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A fast acting

### Diagrams and graphs

Installation

