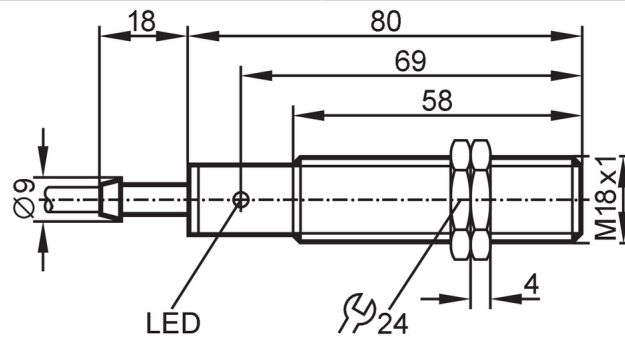


# IG0325



## Inductive sensor

IG-2005-ABOA



### Product characteristics

Output function		normally open
Sensing range	[mm]	5
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 80

### Electrical data

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

### Outputs

Output function		normally open
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]	50
Short-circuit proof		no
Overload protection		no

### Detection zone

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 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15

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Switch point drift	[% of Sr]	-10...10
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### Operating conditions

Ambient temperature	[°C]	-25...80
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Protection	IP 67
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### Tests / approvals

EMC	EN 60947-5-2	
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EN 55011	class B
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MTTF	[years]	609
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UL approval	Ta	0...40 °C
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Enclosure type	Type 1
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File number UL	E174191
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### Mechanical data

Weight	[g]	117.3
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Housing	threaded type
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Mounting	flush mountable
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Dimensions	[mm]	M18 x 1 / L = 80
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Thread designation	M18 x 1
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Materials	housing: PBT
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### Displays / operating elements

Display	switching status	1 x LED, red
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### Electrical connection

Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
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### Accessories

Items supplied	lock nuts: 2
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### Remarks

Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.
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Pack quantity	1 pcs.
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### Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



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

BN =

brown

BU =

blue