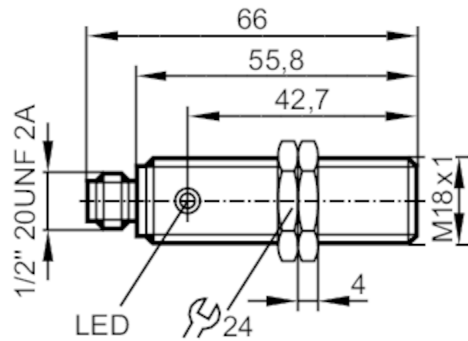




Inductive sensor

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



Product characteristics		
Output function		normally open
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 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]	100
Short-circuit protection		no
Overload protection		no
Detection zone		
Sensing range	[mm]	5
Real sensing range Sr	[mm]	5 ± 10 %
Operating distance	[mm]	0...4.05



Inductive sensor

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

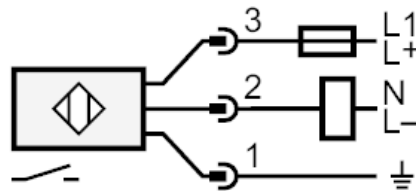
Accuracy / deviations				
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3		
Hysteresis	[% of Sr]	3...15		
Switch point drift	[% of Sr]	-10...10		
Operating conditions				
Ambient temperature		[°C]	-25...80	
Protection			IP 67	
Tests / approvals				
EMC		EN 60947-5-2		
		EN 55011	class B	
MTTF	[years]	609		
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		power supply		Hazardous voltage
		File number UL		E174191
Mechanical data				
Weight		[g]	62.6	
Housing			threaded type	
Mounting			flush mountable	
Dimensions		[mm]	M18 x 1 / L = 66	
Thread designation			M18 x 1	
Materials			housing: brass white bronze coated; Sensing face: PBT white; LED window: PBT white	
Tightening torque		[Nm]	A = 4 mm: 13 Nm; B: 25 Nm	
Displays / operating elements				
Display		switching status	1 x LED, red	
Electrical connection				
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting		
Accessories				
Items supplied		lock nuts: 2		
Remarks				
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit.		
Pack quantity		1 pcs.		

Inductive sensor

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

Electrical connection - plug

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



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Diagrams and graphs

Installation

