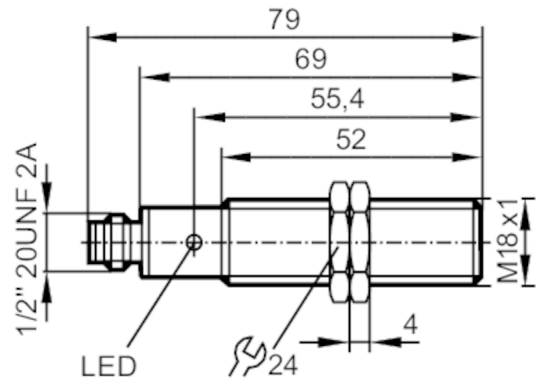




Inductive sensor

IGA2005-ABOA/SL/LS-100AK/RT



Product characteristics

Output function		normally open
Sensing range	[mm]	5
Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 79

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

Monitoring range

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

IG0337



Inductive sensor

IGA2005-ABOA/SL/LS-100AK/RT

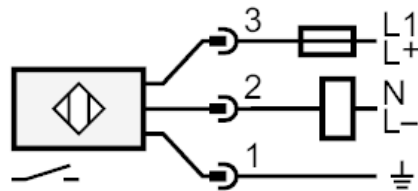
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	3...15	
Switch-point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature		[°C]	-25...80
Protection			IP 67
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	609	
UL approval		Ta	
		0...40 °C	
		Enclosure type	
		Type 1	
		File number UL	
		E174191	
CSA approval		Ta	
		-25...80 °C	
		Classification	
		Class I; Div. 2; Groups A, B, C, D; T4	
		Class II; Div. 2; Groups F, G; T135 °C	
		Class III	
Mechanical data			
Weight		[g]	68.2
Housing			Threaded type
Mounting			flush mountable
Dimensions		[mm]	M18 x 1 / L = 79
Thread designation			M18 x 1
Material			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 unit for reliable function after a short circuit.
Pack quantity			1 pcs.

Inductive sensor

IGA2005-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

