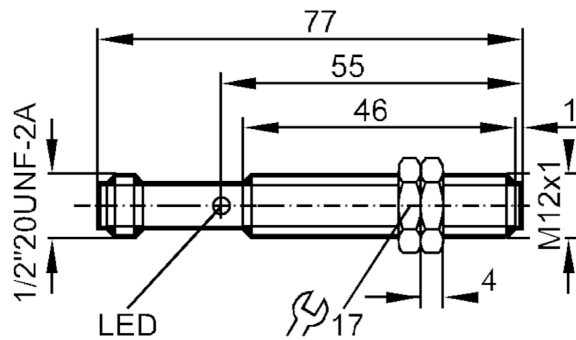




Inductive sensor

IFA2002-ABOW/SL/LS-100AK RT



Product characteristics		
Output function		normally open
Sensing range	[mm]	2
Housing		Threaded type
Dimensions	[mm]	M12 x 1 / L = 77
Electrical data		
Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC
Protection class		I
Reverse polarity protection		no
Outputs		
Output function		normally open
Max. voltage drop switching output AC	[V]	8.5
Minimum load current	[mA]	8
Max. leakage current	[mA]	2
Permanent current rating of switching output AC	[mA]	200; (250 (...50 °C))
Short-time current rating of switching output	[mA]	900; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Short-circuit proof		no
Overload protection		no

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Inductive sensor

IFA2002-ABOW/SL/LS-100AK RT

Monitoring range		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.6
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 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 61000-4-2 ESD	6 kV CD / 8 AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0.5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
	EN 60947-5-2	
MTTF	[years]	932
Mechanical data		
Weight	[g]	34
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 77
Thread designation		M12 x 1
Material		housing: brass white bronze coated; sensing face: PBT white; LED window: PA
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.
Electrical connection - plug		
Connector: 1 x 1/2"; coding: C		

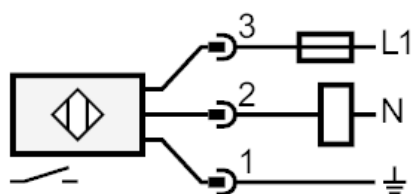
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Inductive sensor

IFA2002-ABOW/SL/LS-100AK RT

Connection



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