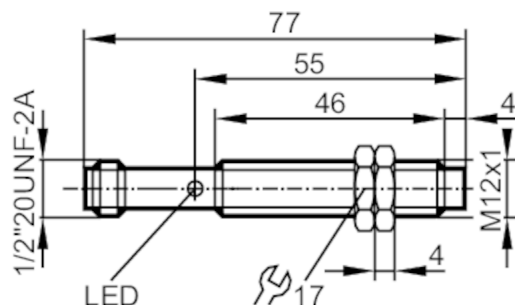




Inductive sensor

IFA2004-BBOW/SL/LS-100AK RT



Electrical data

Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC
Protection class		I
Reverse polarity protection		no

Outputs

Output function		normally closed
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]	250; (200 (...80 °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

Detection zone

Sensing range	[mm]	4
Real sensing range Sr	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.25

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

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Inductive sensor

IFA2004-BBOW/SL/LS-100AK RT

Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	932
Mechanical data		
Weight	[g]	40.9
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 77
Thread designation		M12 x 1
Materials		brass white bronze coated; sensing face: PBT natural
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		
Accessories (supplied)	lock nuts: 2	
Remarks		
Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.	
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x 1/2"		
		

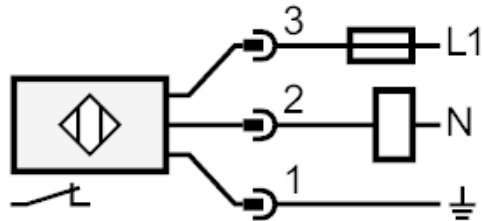
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Inductive sensor

IFA2004-BBOW/SL/LS-100AK RT

Connection



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