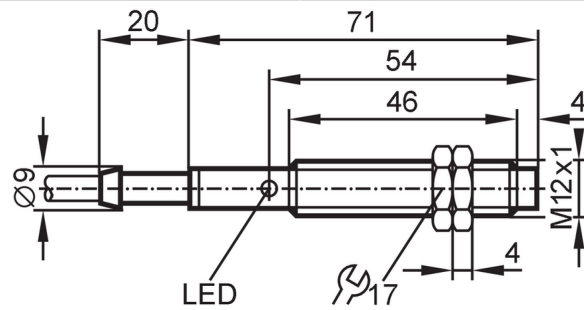


# IF0302



## Inductive sensor

IFA2004-ABOW/RT



### Product characteristics

Output function		normally open
Sensing range	[mm]	4
Housing		Threaded type
Dimensions	[mm]	M12 x 1 / L = 71

### Electrical data

Operating voltage	[V]	20...250 AC
Protection class		II
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 protection		no
Overload protection		no

### Monitoring range

Sensing range	[mm]	4
Real sensing range Sr	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.24

### Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.4
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10

### Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

# IF0302



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IFA2004-ABOW/RT

Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF	[years]	932

Mechanical data		
Weight	[g]	117.2
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 71
Thread designation		M12 x 1
Material		housing: brass white bronze coated; sensing face: PBT natural; Nuts: brass white bronze coated; cable entry: TPE-E; LED window: PBT natural
Tightening torque	[Nm]	A = 4 mm: 3,5 Nm; B: 5 Nm

Displays / operating elements		
Display	Switching status	1 x LED, red

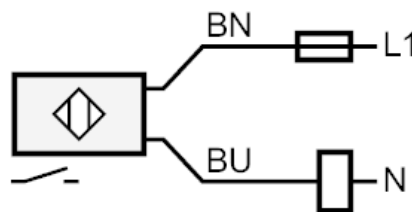
Electrical connection		
Required protection	miniature fuse to IEC60127-2 sheet 1; $\leq 2$ A; fast acting	

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

Connection		
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Core colors :  
BN = brown  
BU = blue

# IF0302

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### Diagrams and graphs

#### Installation

