

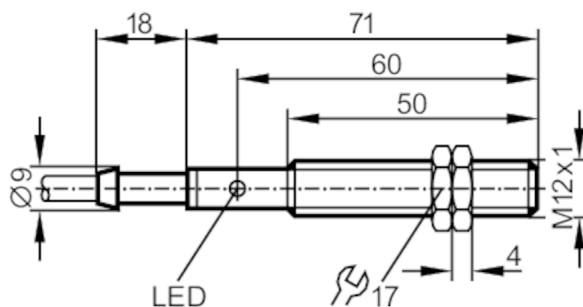
IF5766



Inductive sensor

IFA2002-FRKG/PH

RT



Product characteristics

Output function	normally open / normally closed; (selectable)	
Sensing range [mm]	2	
Housing	threaded type	
Dimensions [mm]	M12 x 1 / L = 71	

Electrical data

Operating voltage [V]	10...55 DC	
Protection class	II	
Reverse polarity protection	yes	

Outputs

Output function	normally open / normally closed; (selectable)	
Max. voltage drop switching output DC [V]	4.6	
Minimum load current [mA]	4	
Max. leakage current [mA]	0.5	
Permanent current rating of switching output DC [mA]	400	
Switching frequency DC [Hz]	1100	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	

Detection zone

Sensing range [mm]	2	
Real sensing range S_r [mm]	$2 \pm 10\%$	
Operating distance [mm]	0...1.6	

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis [% of S_r]	1...15	
Switch point drift [% of S_r]	-10...10	

Operating conditions

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

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1815

Mechanical data

Weight	[g]	96.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 71
Thread designation		M12 x 1
Materials		brass white bronze coated; PC

Displays / operating elements

Display	switching status	1 x LED, red
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Accessories

Items supplied	lock nuts: 2
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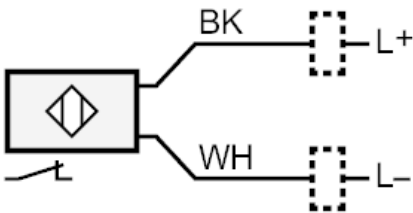
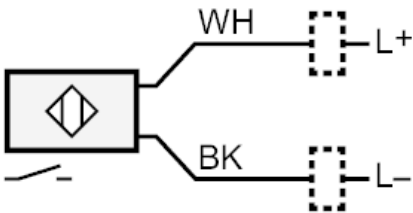
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PUR / PVC; 2 x 0.34 mm²

Connection



BK = Core colours :
WH = black
 white