

IF5684



Inductive sensor

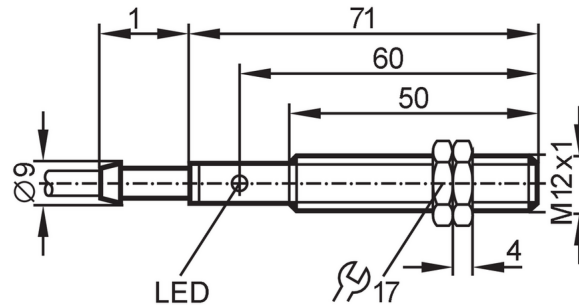
IFA2002-FRKG/V4A/6M/PH

phase-out article

Discontinuation date: 03/31/2026

Alternative articles: IF5662

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Electrical design		PNP/NPN
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

Electrical design		PNP/NPN
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]	1200
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

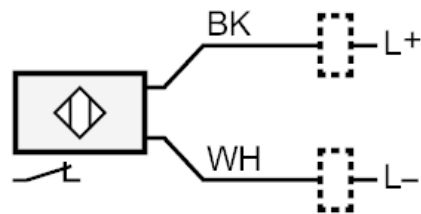
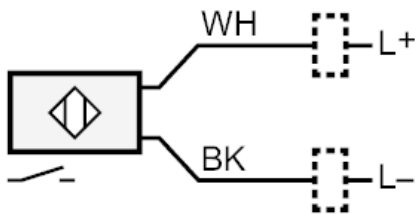
IF5684



Inductive sensor

IFA2002-FRKG/V4A/6M/PH

Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / 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	
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	1815	
Mechanical data		
Weight [g]	237	
Housing	threaded type	
Mounting	flush mountable	
Dimensions [mm]	M12 x 1 / L = 71	
Thread designation	M12 x 1	
Materials	housing: stainless steel (316Ti/1.4571); sensing face: PBT	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 6 m, PUR; 2 x 0.34 mm ²		
Connection		



Core colours :
BK = black
WH = white