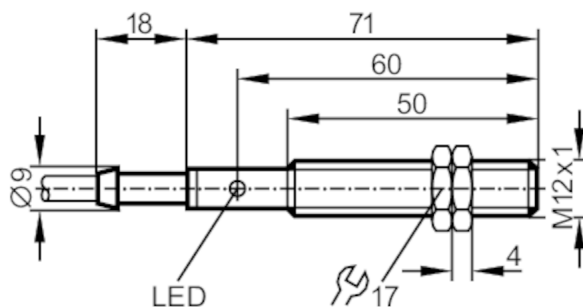


IF5684



Inductive sensor

IFA2002-FRKG/V4A/6M/PH



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / 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 / 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	yes (non-latching)
Overload protection	yes

Monitoring range

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: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of S_r]	3...15
Switch-point drift [% of S_r]	-10...10

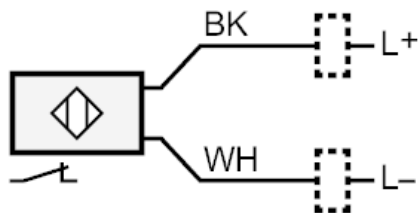
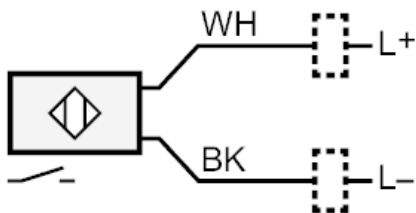
IF5684



Inductive sensor

IFA2002-FRKG/V4A/6M/PH

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
Material		stainless steel (1.4571/316Ti); 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 mm²		
Connection		



BK = Core colors :
 black
WH = white