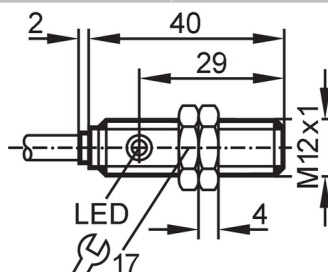


IF5723



Inductive sensor

IFB2002-FRKG/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 = 40

Electrical data

Operating voltage [V]	10...36 DC
Protection class	III
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]	150
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 Sr [mm]	$2 \pm 10\%$
Operating distance [mm]	0...1.6

Accuracy / deviations

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

Operating conditions

Ambient temperature [°C]	-25...80
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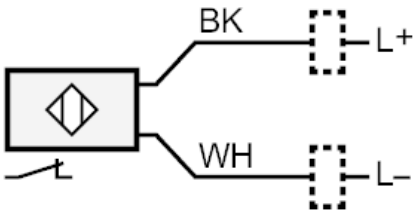
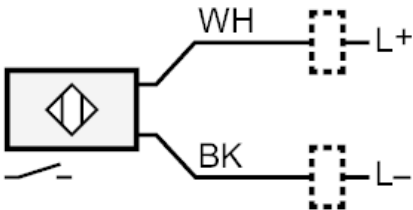
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Inductive sensor

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Protection		IP 67	
Tests / approvals			
EMC	EN 61000-4-2 ESD		4 CD / 8 AD
	EN 61000-4-3 HF radiated		3 V/m
	EN 61000-4-4 Burst		2 kV
	EN 61000-4-6 HF conducted		3 V
	EN 60947-5-2		
	EN 55011		class B
MTTF	[years]	2554	
Mechanical data			
Weight	[g]	84.5	
Housing		Threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M12 x 1 / L = 40	
Thread designation		M12 x 1	
Material		housing: brass nickel-plated; sensing face: PC	
Displays / operating elements			
Display	Switching status	1 x LED, yellow	
Accessories			
Items supplied	lock nuts: 2		
Remarks			
Pack quantity	1 pcs.		
Electrical connection			
Cable: 2 m, PUR / PVC; 2 x 0.34 mm²			
Connection			



BK = Core colors :
WH = black
white