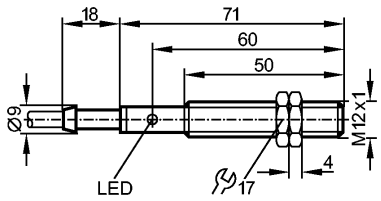
efector100

IF5645

IFA2002-FRKG/PH

Inductive sensors



Made in Germany

Product characteristics		
Inductive sensor		
Metal thread M12 x 1		
Cable		
Sensing range 2 mm; [f] flush mountable		
Electrical data		
Electrical design		DC PNP/NPN
Operating voltage	[V]	10...55 DC
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		normally open / closed programmable
Voltage drop	[V]	< 4.6
Minimum load current	[mA]	4
Leakage current	[mA]	< 0.5
Current rating	[mA]	400
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	1100
Range		
Sensing range	[mm]	2
Real sensing range (Sr)	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.6
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10
Environment		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2 EN 55011: class B
MTTF	[Years]	1815
Mechanical data		
Mounting		flush mountable
Housing materials		Brass white bronze coated; active face: PC (polycarbonate)

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Weight	[kg]	0.092
Displays / operating elements		
Output status indication	LED	yellow
Electrical connection		
Connection		PUR / PVC cable / 2 m; 2 x 0.34 mm²

Wiring

Core colours

BK black

WH white



Accessories		
Accessories (included)		2 lock nuts
Remarks		
Pack quantity	[piece]	1