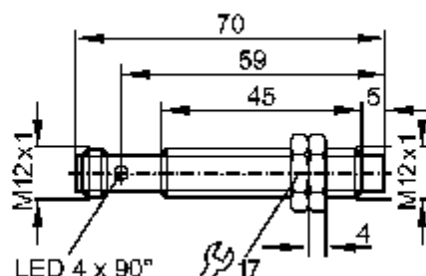


efector100®**IFS209****Inductive sensors**

Made in Germany

Product characteristics

Inductive sensor

Metal thread M12 x 1

Connector

Operation as 3-wire or 2-wire possible

Increased sensing range

Optical setting aid (2 LED)

gold-plated contacts

Sensing range 7 mm [nf]

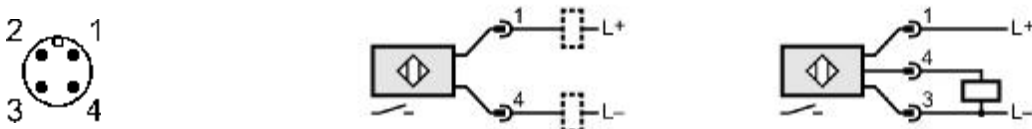
non-flush mountable

Electrical data

Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 12 (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.8
Minimum load current [mA]	2 *)
Leakage current [mA]	< 0.5 *)
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	500

Range		
Sensing range	[mm]	7
Real sensing range (Sr)	[mm]	$7 \pm 10 \%$
Operating distance	[mm]	0...5.7
Accuracy / deviations		
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3	
Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10
Environment		
Ambient temperature	[°C]	-25...70
Protection		IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD:	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated:	10 V/m (80...1000 MHz)
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-6 HF conducted:	10 V (0.15...80 MHz)
	EN 55011:	class B
MTTF	[Years]	1291
Mechanical data		
Mounting		non-flush mountable
Housing materials		brass white bronze coated; active face: PBT
Weight	[kg]	0.029
Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)
Setting aid	LED	red
Electrical connection		
Connection		M12 connector; gold-plated contacts
Wiring		
		
Accessories		

Accessories (included)	2 lock nuts
Remarks	
Remarks	suitable for PLC type 1 according to IEC 61131-2 *) only in 2-wire operation

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