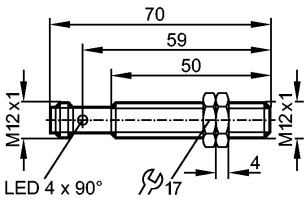
efector100

IFS208

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 4 mm [f]		
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]	4
Real sensing range (Sr)	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.25
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		

IFS208

EMC	EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-6 HF conducted: EN 55011:	4 kV CD / 8 kV AD 10 V/m (80...1000 MHz) 2 kV 10 V (0.15...80 MHz) class B
MTTF [Years]	1306	

Mechanical data

Mounting	flush mountable
Housing materials	brass white bronze coated; active face: PBT
Weight [kg]	0.03

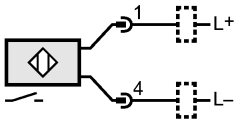
Displays / operating elements

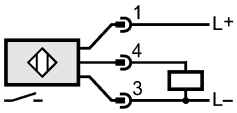
Output status indication LED	yellow (4 x 90°)
Setting aid LED	red

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