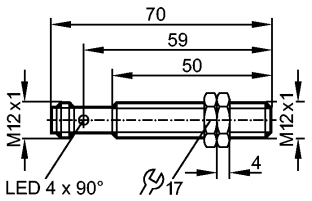
IFS208

IFKC004BASKG/M/US-104-DRS/2LED

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; only in 2-wire operation
Leakage current	[mA]	< 0.5; only in 2-wire operation
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		
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD

		EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V EN 55011: class B
MTTF	[Years]	1306

Mechanical data

Mounting		flush mountable
Housing materials		Brass white bronze coated; active face: PBT
Weight	[kg]	0.032

Displays / operating elements

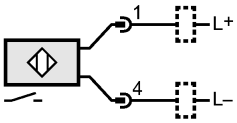
Output status indication	LED	yellow (4 x 90°)
Setting aid	LED	Red

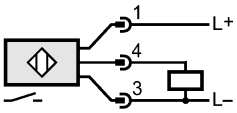
Electrical connection

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
Pack quantity	[piece]	1