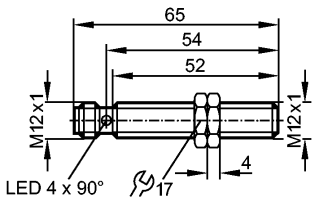
efector100

IFW200

IFK3003BBPKG/M/K1/SC/US104-DPS

Inductive sensors



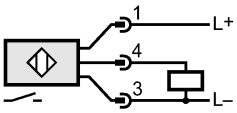
Made in Germany

Product characteristics		
Inductive sensor		
Metal thread M12 x 1		
Connector		
Electromagnetic-field immune		
Increased sensing range		
Gold-plated contacts		
Correction factor = 1		
Sensing range 3 mm; [f] flush mountable		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...30 DC; "supply class 2" to cULus.
Current consumption	[mA]	< 20
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		normally open
Voltage drop	[V]	< 2.5
Current rating	[mA]	200
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	4000
Range		
Sensing range	[mm]	3
Real sensing range (Sr)	[mm]	3 ± 10 %
Operating distance	[mm]	0...2.4
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / aluminium approx. 1 / copper approx. 1
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]		1978
Mechanical data		
Mounting		flush mountable
Housing materials		housing: Brass safe-coated; active face: Duroplast (PF)
Weight [kg]		0.037
Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)
Electrical connection		
Connection		M12 connector; Gold-plated contacts

Wiring





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