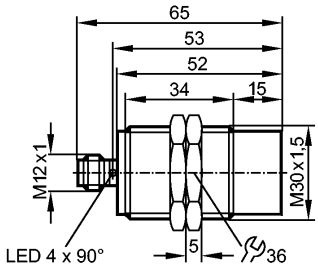
efector100

IIW201

IIK3022-BPKG/M/K1/SC/US104-DPS

Inductive sensors



Made in Germany

Product characteristics		
Inductive sensor		
Metal thread M30 x 1.5		
Connector		
Electromagnetic-field immune		
Increased sensing range		
Gold-plated contacts		
Correction factor = 1		
Sensing range 22 mm; [nf] non-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]	1000
Range		
Sensing range	[mm]	22
Real sensing range (Sr)	[mm]	22 ± 10 %
Operating distance	[mm]	0...17.6
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]	1915	

Mechanical data

Mounting	non-flush mountable
Housing materials	housing: Brass safe-coated; active face: Duroplast (PF)
Weight [kg]	0.117

Displays / operating elements

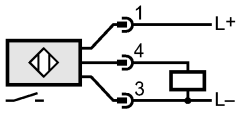
Output status indication LED	yellow (4 x 90°)

Electrical connection

Connection	M12 connector; Gold-plated contacts

Wiring





Accessories

Accessories (included)	2 lock nuts

Remarks

Pack quantity [piece]	1