efector100

IIS205

Made in Germany

CE c UL us LISTED
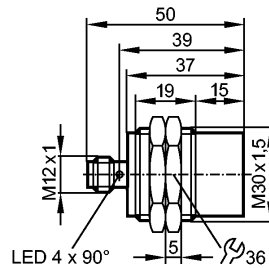
Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Connector

Increased sensing range

gold-plated contacts

Sensing range 22 mm [nf]

non-flush mountable

Electrical data

Electrical design		DC PNP
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 10 (24 V)
Protection class		II
Reverse polarity protection		yes

Outputs

Output function		normally open
Voltage drop	[V]	< 2.5
Current rating	[mA]	100
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	100

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. 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

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EN 61000-4-6 HF conducted:	10 V (0.15...80 MHz)	
EN 55011:	class B	

MTTF	[Years]	1955

Mechanical data

Mounting	non-flush mountable
Housing materials	brass white bronze coated; active face: PBT
Weight [kg]	0.111

Displays / operating elements

Output status indication LED	yellow (4 x 90°)

Electrical connection

Connection	M12 connector; gold-plated contacts

Wiring
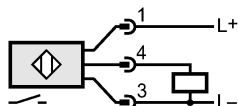
Accessories

Accessories (included)	2 lock nuts