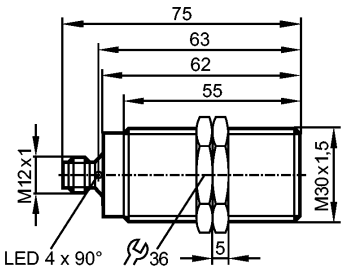
efector100

II5971

IIA3015BBPKG/US

Inductive sensors



CE

Product characteristics

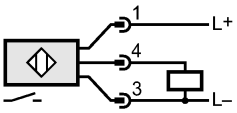
Inductive sensor		
Metal thread M30 x 1.5		
Connector		
Sensing range 15 mm; [f] flush mountable		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 15
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		normally open
Voltage drop	[V]	< 2.5
Current rating	[mA]	250
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	100
Range		
Sensing range	[mm]	15
Operating distance	[mm]	0...12.1
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Hysteresis	[% of Sr]	1...20
Environment		
Ambient temperature	[°C]	-40...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 61000-4-5 Surge:	0.5 kV (line to line, Ri: 2Ohm)
	EN 61000-4-6 HF conducted:	10 V
	EN 55011 (Emission):	class B
	signal-to-noise ratio walkie-talkie	150 MHz (5 W): 7.5 cm / 450 MHz (5 W): 5 cm / 900 MHz (2 W): 0 cm
Vibration resistance	EN 60068-2-6 Fc	20 g (10...3000 Hz) / -20...50°C 50 cycles per frequency, 1 octave per minute in each of 3 mutually perpendicular axes
Shock resistance	EN 60068-2-27 Ea	100 g (11 ms half sine; 3 shocks in each direction along the three coordinate axes) / -40...85°C

II5971 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Continuous shock resistance		EN 60068-2-29 Eb	40 g (6 ms; 4000 shocks in each direction along the three coordinate axes) / -20...50°C
Mechanical data			
Mounting		flush mountable	
Housing materials		Brass white bronze coated; active face: PBT uncoloured	
Weight	[kg]	0.209	
Displays / operating elements			
Output status indication	LED	yellow (4 x 90°)	
Electrical connection			
Connection		M12 connector	

Wiring



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