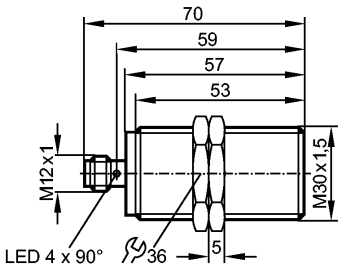
II5917

IIK3010A2PKG/US

Inductive sensors

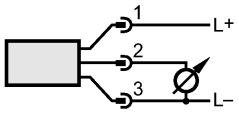


CE

Product characteristics		
Inductive sensor		
Metal thread M30 x 1.5		
Quick disconnect		
Analog output 0...10 V (linear, gradient: 1.111 V/mm) *)		
Measuring range 1.0...10 mm; [f] flush mountable		
Electrical data		
Electrical design		DC analog
Operating voltage	[V]	15...30 DC
Current consumption	[mA]	< 20
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		0...10 V analog
Min. load	[Ω]	2000
Short-circuit protection		yes
Overload protection		yes
Monitoring range		
Measuring range	[mm]	1.0...10
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3
Linearity error		± 3 %; of UA max
Temperature coefficient		± 10 % of UA max at -25...70°C; ± 15 % of UA max at 70...80°C
Repeatability		± 2 %; of UA max
Reaction times		
Response time	[ms]	< 10
Environment		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
MTTF	[Years]	1014
Mechanical data		
Mounting		flush mountable
Housing materials		housing: brass white bronze coated; active face: PBT
Weight	[kg]	0.151
Displays / operating elements		
Display		within the operating range yellow (permanently lit) outside the operating range yellow (flashing)
Electrical connection		
Connection		M12 connector

II5917 - Inductive sensor - eclass: 27270802 / 27-27-08-02

Wiring



Accessories		
Accessories (included)		2 lock nuts
Remarks		
Remarks		*) for target 30x30x1 mm made of mild steel and frontal approach
Pack quantity	[piece]	1