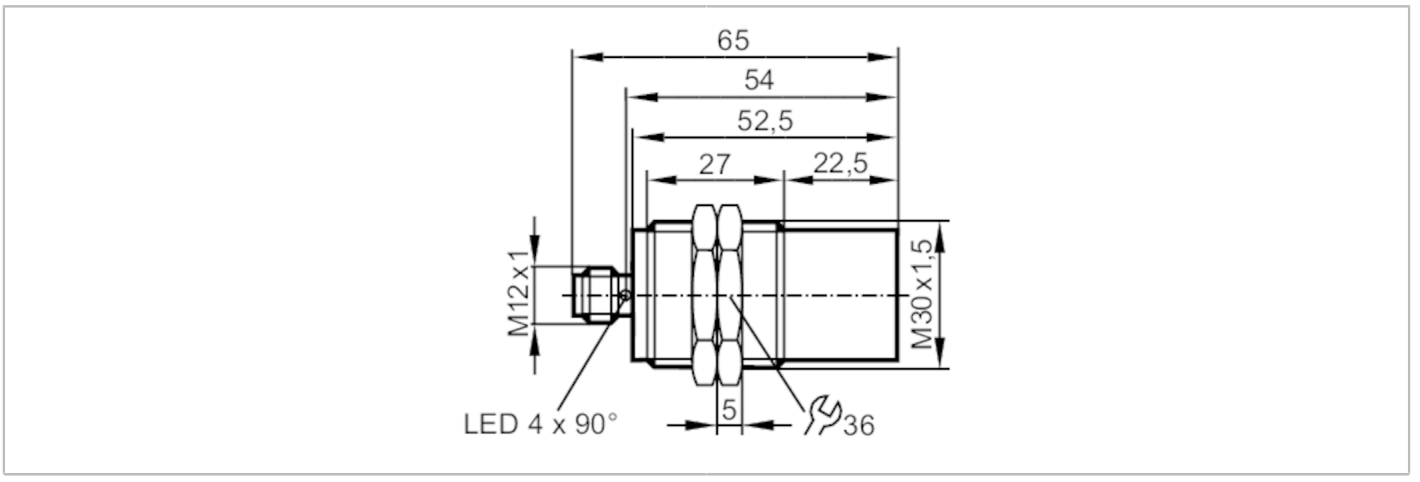
IIT232

Inductive full-metal sensor

IIK3025-ANKG/AM/P/US-104



EC 1935/2004

Product characteristics		
Electrical design		NPN
Output function		normally open
Sensing range	[mm]	25
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 65
Application		
Special feature		Gold-plated contacts; Increased sensing range; Full-metal housing
Application		constant cleaning with aggressive cleaning agents; regular cleaning processes
Pressure rating	[bar]	100
Note on pressure rating		sensing face
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 25
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	100
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	25
Real sensing range Sr	[mm]	25 ± 10 %
Operating distance	[mm]	0...20.3

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Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 1 / brass: 0.9 / aluminium: 0.6 / copper: 0.5	
Hysteresis	[% of Sr]	1...20	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	0...100	
Protection		IP 65; IP 67; IP 68; IP 69K	
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 61000-4-6 HF conducted	10 V
		EN 55011 emission	class B
Impact resistance		EN 60068-2-75 Ehc	1 J
MTTF	[years]	1262	
Embedded software included		yes	
UL approval		Ta	0...70 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		UL Approval no.	A012
		File number UL	E174191
Mechanical data			
Weight	[g]	165.043	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 65	
Thread designation		M30 x 1.5	
Materials		housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); lock nuts: stainless steel (316L/1.4404)	
Tightening torque	[Nm]	80	
Full-metal housing		yes	
Displays / operating elements			
Display		switching status	4 x 90° LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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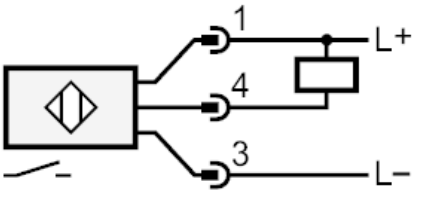
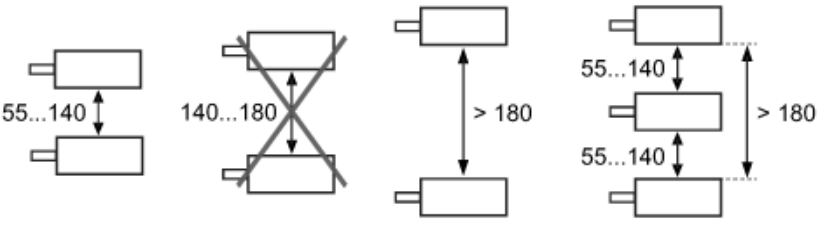
Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated

Connection



Diagrams and graphs