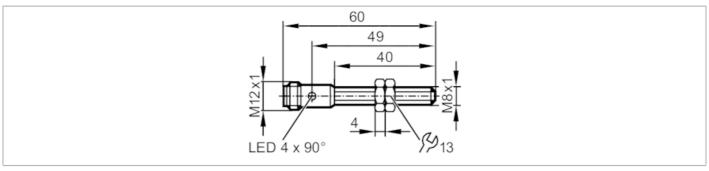
IER201

Inductive full-metal sensor

IEK3002BANKG/AM/SC/US-104







Product characteristics				
Electrical design		NPN		
Output function		normally open		
Sensing range	[mm]	2		
Housing		Threaded type		
Dimensions	[mm]	M8 x 1 / L = 60		
Application				
System		gold-plated contacts; Increased sensing range; Full-metal housing; weld coated		
Application		Use in welding applications		
Pressure rating	[bar]	50		
Note on pressure rating		sensing face		
Electrical data				
Operating voltage	[V]	1030 DC		
Current consumption	[mA]	< 10		
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		
Monitoring range				
Sensing range	[mm]	2		
Real sensing range Sr	[mm]	2 ± 10 %		
Operating distance	[mm]	01.62		
Increased sensing range		yes		
Accuracy / deviations				
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.7 / aluminum: 0.6 / copper: 0.5		
	% of Sr]	120		
11,515.656	, , , , , , ,	120		

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Switch-point drift	[% of Sr]	-1010		
Operating conditions				
Ambient temperature	[°C]	085		
Protection		IP 67; IP 68		
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	class B	
Impact resistance			1 J	
MTTF	[years]	1389		
UL approval		Та	070 °C	
		Enclosure type	Type 1	
		voltage supply	Limited Voltage/Current	
		UL approval number	A030	
		File number UL	E174191	
Mechanical data				
Weight	[g]	21.1		
Housing		Threaded type		
Mounting		flush mountable		
Dimensions	[mm]	M8 x 1 / L = 60		
Thread designation		M8 x 1		
Material		housing: stainless steel (1.4404 / 316L) weld coated; sensing face: stainless steel (1.4404 / 316L) weld coated; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L) weld coated		
Tightening torque	[Nm]		< 5	
Full-metal housing			yes	
Displays / operating e	lements			
Display	lomonto	Switching status	4 x 90° LED, yellow	
Accessories			TAGG LLD, your	
Items supplied		lock nuts: 2		
Remarks			IOUR HUIS. 2	
Pack quantity		1 pcs.		
Electrical connection	- plug			
Connector: 1 x M12; coo	ding: A; Conta	cts: gold-plated		
3 4				

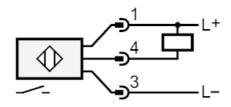
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Connection



Diagrams and graphs Installation Immil a b c (Ø) d Fe 0 0 - 6 Al 4 4 24 6