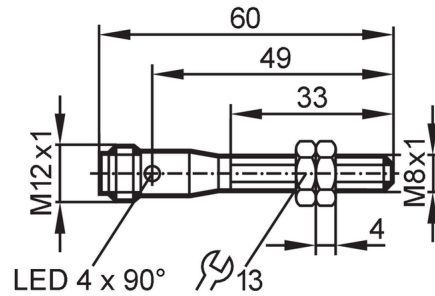


IER200



Inductive full-metal sensor

IEK3002BBPKG/AM/SC/US-104-DPS



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	2
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 60
Application		
Special feature	Gold-plated contacts; Increased sensing range; Full-metal housing	
Application	Use in welding applications	
Pressure rating	50 bar	10 MPa
Note on pressure rating	sensing face	
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 20
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
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
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.6
Increased sensing range		yes

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Accuracy / deviations		
Correction factor		stainless steel: 0.6 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	0...85
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
Embedded software included		yes
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	21.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 60
Thread designation		M8 x 1
Materials		housing: stainless steel (316L/1.4404) anti-spatter; sensing face: stainless steel (316L/1.4404) anti-spatter; lock nuts: stainless steel (316L/1.4404) anti-spatter
Tightening torque	[Nm]	3.5
Full-metal housing		yes
Displays / operating elements		
Display	switching status	4 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; coding: A; Contacts: 4, gold-plated		

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Connection



Diagrams and graphs

Installation

