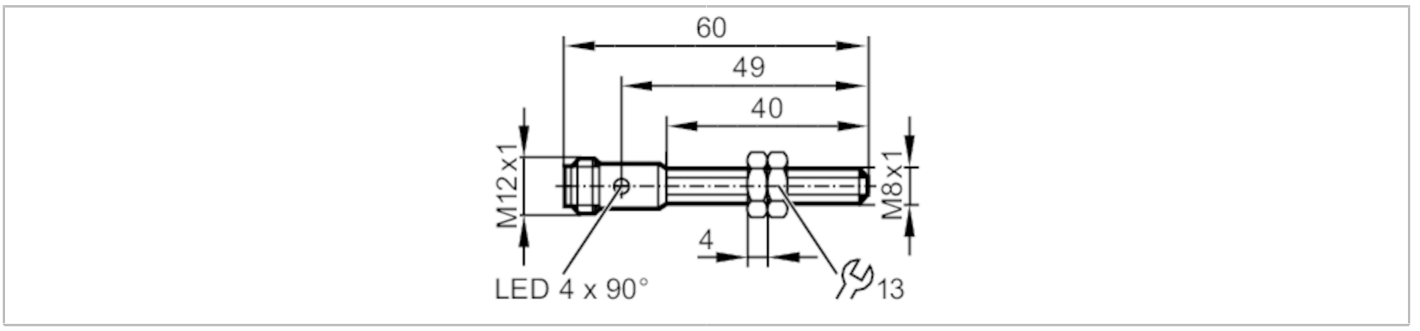
IEC200

Inductive full-metal sensor

IEK3002BBPKG/AM/US-104



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			Industrial applications / factory automation; For use where space is restricted; Use in machine tools, coolants and lubricants
Pressure rating		50 bar	10 MPa
Note on pressure rating			sensing face
Electrical data			
Operating voltage	[V]		10...30 DC
Current consumption	[mA]		< 10
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
Overload protection			yes
Detection zone			
Sensing range	[mm]		2
Real sensing range Sr	[mm]		2 ± 10 %
Operating distance	[mm]		0...1.62
Increased sensing range			yes
Accuracy / deviations			
Correction factor			steel: 1 / stainless steel: 0.7 / brass: 0.7 / aluminium: 0.6 / copper: 0.5

IEC200

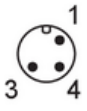
Inductive full-metal sensor

IEK3002BBPKG/AM/US-104

Hysteresis	[% of Sr]	1...20	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67; IP 68; IP 69K; ("Coolant")	
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]	1446	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval no.	A028
		File number UL	E174191
Mechanical data			
Weight	[g]	21.4	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M8 x 1 / L = 60	
Thread designation		M8 x 1	
Materials		stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PEI; lock nuts: stainless steel (316L/1.4404)	
Tightening torque	[Nm]	< 5	
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.	

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 3, gold-plated

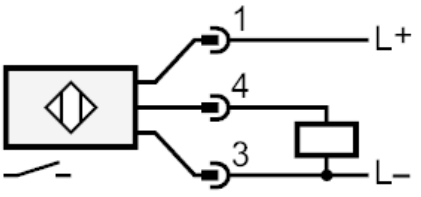


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Inductive full-metal sensor

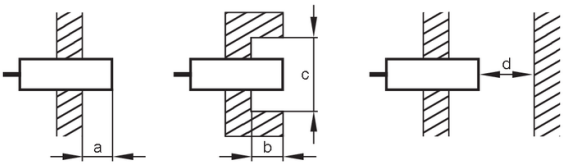
IEK3002BBPKG/AM/US-104

Connection



Diagrams and graphs

Installation



[mm]	a	b	c (Ø)	d
Fe	0	0	-	6
Al	4	4	24	6

