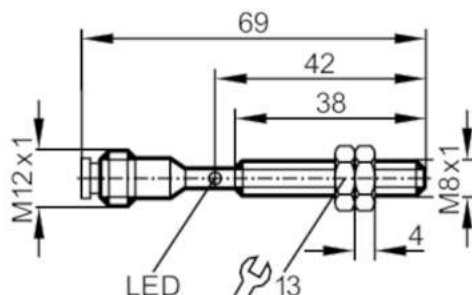


IE5203



Inductive sensor

IEK2001-FRKG/US-104



Product characteristics

Electrical design	PNP/NPN	
Output function	normally open / normally closed; (selectable)	
Sensing range [mm]	1	
Housing	threaded type	
Dimensions [mm]	M8 x 1 / L = 69	

Electrical data

Operating voltage [V]	5...36 DC	
Protection class	III	

Outputs

Electrical design	PNP/NPN	
Output function	normally open / normally closed; (selectable)	
Max. voltage drop switching output DC [V]	4.6	
Minimum load current [mA]	4	
Max. leakage current [mA]	0.8	
Permanent current rating of switching output DC [mA]	200	
Switching frequency DC [Hz]	2000	
Short-circuit protection	yes	
Overload protection	yes	

Detection zone

Sensing range [mm]	1	
Real sensing range Sr [mm]	1 ± 10 %	
Operating distance [mm]	0...0.8	

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / 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]	-25...80	
Protection	IP 67	

IE5203



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Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
Embedded software included	yes	
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	22.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 69
Thread designation		M8 x 1
Materials		housing: brass white bronze coated; sensing face: PBT
Tightening torque	[Nm]	A = 5 mm: 1 Nm; B: 2 Nm
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

IE5203

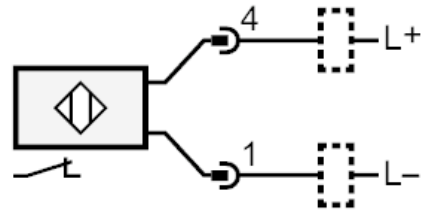
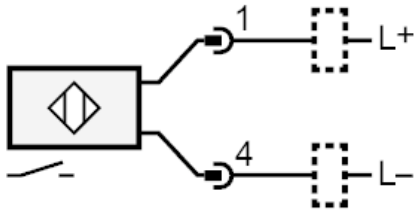
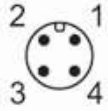


Inductive sensor

IEK2001-FRKG/US-104

Electrical connection - plug

Connector: 1 x M12; coding: A



Diagrams and graphs

Installation

