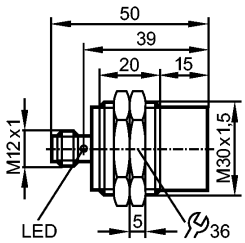
IIS209

IIB3022-APKG/US-104

Inductive sensors



Product characteristics		
Inductive sensor		
Metal thread M30 x 1.5		
Connector		
Increased sensing range		
Gold-plated contacts		
Sensing range 22 mm; [nf] non-flush mountable		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		Normally closed
Voltage drop	[V]	< 2.5
Current rating	[mA]	100
Short-circuit protection		yes
Overload protection		yes
Switching frequency	[Hz]	100
Range		
Sensing range	[mm]	22
Real sensing range (Sr)	[mm]	22 ± 10 %
Operating distance	[mm]	0...17.82
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10
Environment		
Ambient temperature	[°C]	-25...70
Protection		IP 67
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

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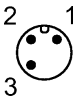
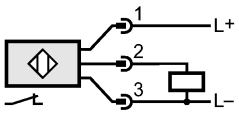
MTTF	[Years]	1570
UL approval number		A001
Mechanical data		
Mounting		non-flush mountable
Housing materials		Brass white bronze coated; active face: PBT orange; LED window: PEI; lock nuts: Brass white bronze coated
Weight	[kg]	0.1
Displays / operating elements		
Output status indication	LED	4 x yellow
Electrical connection		
Connection		M12 connector; Gold-plated contacts

Wiring





Accessories		
Accessories (included)		2 lock nuts
Remarks		
Pack quantity	[piece]	1