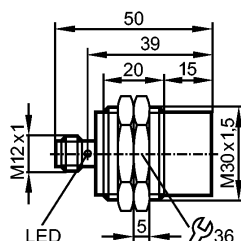


IIS209

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

IIS209

IIB3022-APKG/US-104

Inductive sensors

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

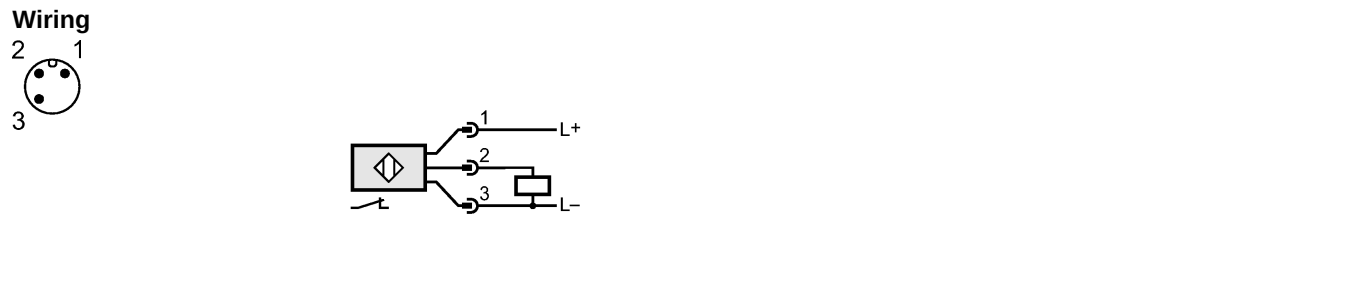
Displays / operating elements

Output status indication	LED	4 x yellow
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Electrical connection

Connection	M12 connector; Gold-plated contacts	
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Wiring



The diagram shows a circular 3-pin connector with terminals labeled 1, 2, and 3. Terminal 1 is connected to L+, terminal 2 is connected to L-, and terminal 3 is connected to a common ground symbol.

Accessories

Accessories (included)	2 lock nuts	
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Remarks

Pack quantity	[piece]	1
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