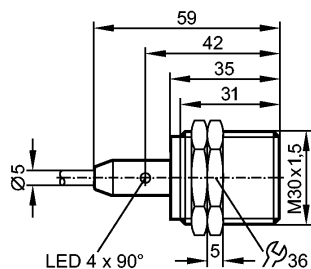


IIT209

IIB3014BBPKG/M/V4A/6M/WH

Inductive sensors



Product characteristics

Inductive sensor
Metal thread M30 x 1.5
Cable
Increased sensing range
Sensing range 14 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	10 (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	100

Monitoring range

Sensing range [mm]	14
Real sensing range (Sr) [mm]	14 ± 10 %
Operating distance [mm]	0...11.34

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3	
Hysteresis [% of Sr]	3...15	
Switch-point drift [% of Sr]	-10...10	

Environment

Ambient temperature [°C]	0...100
Protection	IP 68 / IP 69K

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
MTTF [Years]	1590	

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Inductive sensors

Mechanical data

Mounting	flush mountable
Housing materials	stainless steel (316L); active face: PEEK (polyether ether ketone)
Weight [kg]	0.323

Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
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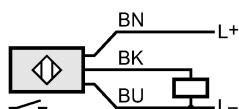
Electrical connection

Connection	PVC cable / 6 m; 3 x 0.34 mm ²
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Wiring

Core colors

- BK black
- BN brown
- BU blue



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity	[piece]	1
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