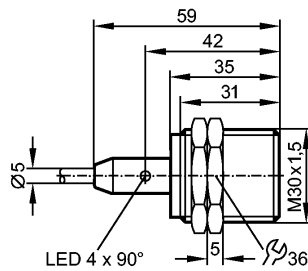


IIT209

IIB3014BBPKG/M/V4A/6M/WH

Inductive sensors



Made in Germany



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
Leakage current [mA]	< 0.5
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	100

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 / Al approx. 0.4 / Cu 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 (80...1000 MHz)
	EN 61000-4-4 Burst: 2 kV
	EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz)
	EN 55011: class B

IIT209

IIB3014BBPKG/M/V4A/6M/WH

Inductive sensors

MTTF	[Years]	1590
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Mechanical data

Mounting	flush mountable	
Housing materials	stainless steel (316L); active face: PEEK (polyether ether ketone)	
Weight	[kg]	0.324

Displays / operating elements

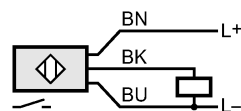
Output status indication	LED	yellow (4 x 90°)
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Electrical connection

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

Core colours
 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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