

IFC240



Inductive sensor

IFB3004-BPKG/M/US-104-DPS



Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 10
Protection class		II
Reverse polarity protection		yes

Outputs

Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	700
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	4
Real sensing range Sr	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.25

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 68; ("Coolant")

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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 61000-4-5 Surge		0,5 kV
	EN 61000-4-6 HF conducted		10 V
	EN 55011		class B
MTTF	[years]	1896	
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	voltage supply		Unlimited Voltage
	File number UL		E174191

Mechanical data

Weight	[g]	24.8
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M12 x 1 / L = 50
Thread designation	M12 x 1	
Materials	brass white bronze coated; sensing face: LCP uncoloured	

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated



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Connection

