

IFS205



Inductive sensor

IFB3007-BPKG/US-104



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	7
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 50

Application

System	gold-plated contacts; Increased sensing range
Application	Industrial applications

Electrical data

Operating voltage [V]	10...30 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]	100
Switching frequency DC [Hz]	700
Short-circuit protection	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	7
Real sensing range Sr [mm]	$7 \pm 10 \%$
Operating distance [mm]	0...5.7
Increased sensing range	yes



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	3...15	
Switch-point drift	[% of Sr]	-10...10	
Operating conditions			
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
Embedded software included		yes	
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	voltage supply		Hazardous voltage
	UL approval number		A003
	File number UL		E174191
Mechanical data			
Weight		[g]	25.2
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions		[mm]	M12 x 1 / L = 50
Thread designation		M12 x 1	
Material		brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated	
Displays / operating elements			
Display		Switching status	4 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			
Connector: 1 x M12; coding: A; Contacts: gold-plated			
			

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Connection

