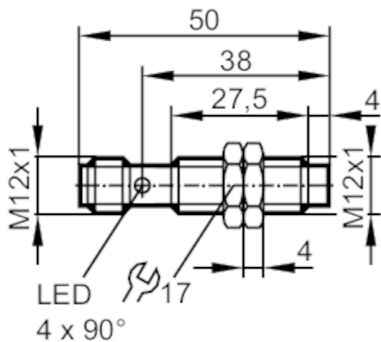


IF6033



Inductive sensor

IFB3004-BPKG/US/PULLDOWN 2KOHM



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	4
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 50

Application

Special feature	Gold-plated contacts
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Electrical data

Operating voltage [V]	9...32 DC
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes
Internal pull-down resistance [kΩ]	2

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]	125; (150 (...50 °C))
Short-time current rating of switching output [mA]	150
Switching frequency DC [Hz]	200
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



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature		[°C]	-40...80
Protection		IP 67	
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	3 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	3 V
		EN 55011 emission	class B
MTTF	[years]	1130	
Mechanical data			
Weight		[g]	25.7
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions		[mm]	M12 x 1 / L = 50
Thread designation		M12 x 1	
Materials		threaded sleeve: brass white bronze coated; sensing face: PBT orange; lock nuts: brass; potting: oil resistant	
Displays / operating elements			
Display		switching status	1 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

