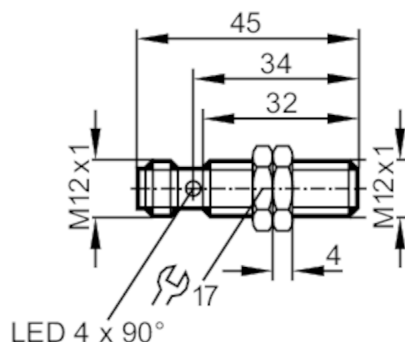




Inductive NAMUR sensor

IFB2004BN/M/V4A/US



Electrical data

Connection to switching amplifiers	yes
Switching amplifiers	Connection to switching amplifiers
Operating voltage [V]	7.5...30 DC
Protection class	III
Reverse polarity protection	no

Outputs

Output function	normally closed
Minimum load current [mA]	2.1
Max. leakage current [mA]	0.1
Permanent current rating of switching output DC [mA]	30
Switching frequency DC [Hz]	700
Short-circuit protection	no
Overload protection	no

Detection zone

Sensing range [mm]	4
Real sensing range Sr [mm]	$4 \pm 10\%$
Operating distance [mm]	0...3.25
Increased sensing range	yes

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]	-20...70
Protection	IP 67



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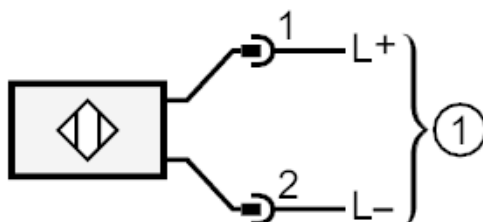
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF	[years]	3044
Mechanical data		
Weight	[g]	25.2
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 45
Thread designation		M12 x 1
Materials		threaded sleeve: stainless steel (1.4404 / 316L); sensing face: PEEK
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; Contacts: gold-plated		
		



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Connection



1 = connection to NAMUR amplifiers