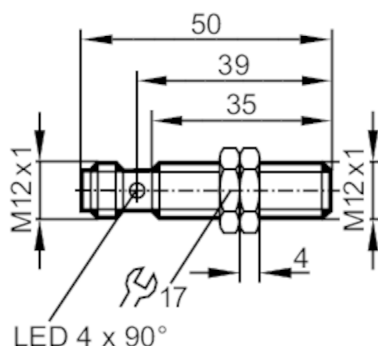


IF6125



Inductive sensor

IFB3004BBPKG/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; Increased sensing range
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Electrical data

Operating voltage [V]	9...32 DC
Current consumption [mA]	< 25
Protection class	III
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]	50
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 S_r [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
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Hysteresis	[% of Sr]	3...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]	2965

Mechanical data

Weight	[g]	26.4
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 50
Thread designation		M12 x 1
Materials		threaded sleeve: brass white bronze coated; sensing face: PBT; LED window: PEI; lock nuts: brass white bronze coated
Tightening torque	[Nm]	7

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection



IF6125



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Connection



Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated