

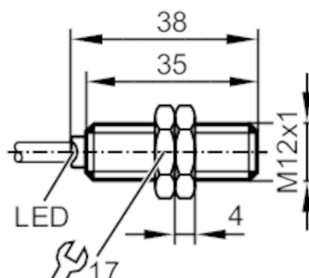
IF6130



Inductive sensor

IFB3002-BPKG/PULLDOWN/0,4M/AMP

customer-specific



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 38

Application

Special feature	Increased sensing range
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Electrical data

Operating voltage [V]	5...30 DC
Current consumption [mA]	< 32
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]	2
Real sensing range S_r [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.62
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]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...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	class B
MTTF	[years]	2972

Mechanical data

Weight	[g]	52
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 38
Thread designation		M12 x 1
Materials		threaded sleeve: brass white bronze coated; sensing face: PBT; lock nuts: brass; end cap: TPU
Tightening torque	[Nm]	7

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Remarks	The unit has internally a resistor between pin 1 and pin 3 (12 kOhm) and a resistor between pin 3 and pin 4 (1.2 kOhm).
Notes	customer-specific
Pack quantity	1 pcs.

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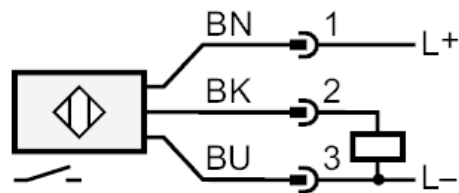
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Electrical connection

Cable: 0.4 m, PVC; 3 x 0.34 mm²

Connection



	Core colours
BN	brown
BK	black
BU	blue

Connector: 1 x AMP (282105-1, 183036-1, 281934-4)