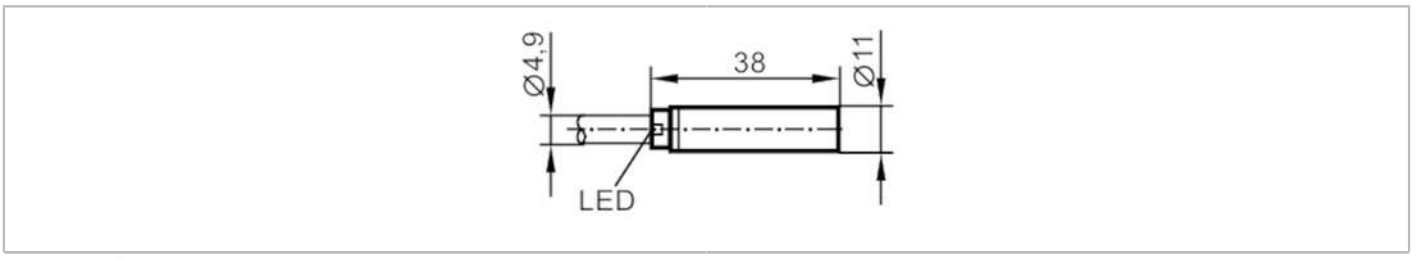
IF6023

Inductive sensor

IFG3007-BPKG/5M



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	7
Housing		cylindrical
Dimensions	[mm]	Ø 11 / L = 38
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 15
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]	250
Switching frequency DC	[Hz]	400
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	7
Real sensing range Sr	[mm]	7 ± 10 %
Operating distance	[mm]	0...5.7
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]	-25...80
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2

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MTTF	[years]	2744	
UL approval		Ta	-25...80 °C
		Enclosure type	Type 1
		power supply	Class 2
		File number UL	E174191

Mechanical data

Weight	[g]	198.5
Housing		cylindrical
Mounting		non-flush mountable
Dimensions	[mm]	Ø 11 / L = 38
Materials		PBT

Displays / operating elements

Display	switching status	1 x LED, yellow

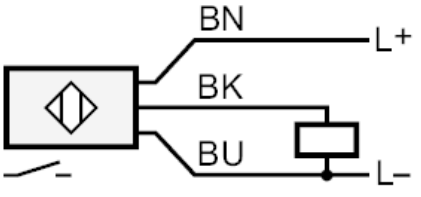
Remarks

Pack quantity	1 pcs.

Electrical connection

Cable: 5 m, PVC; 3 x 0.34 mm²

Connection



	Core colours :
BK =	black
BN =	brown
BU =	blue