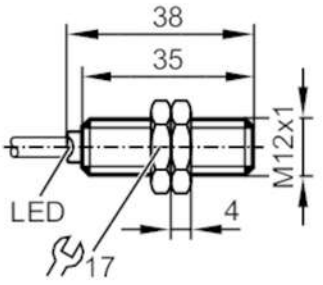
IF6130

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
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 Sr	[mm]	2 ± 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
Accessories			
Items supplied		lock nuts: 2	
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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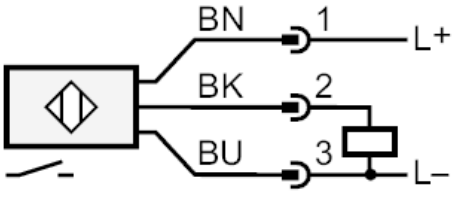
Electrical connection

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)