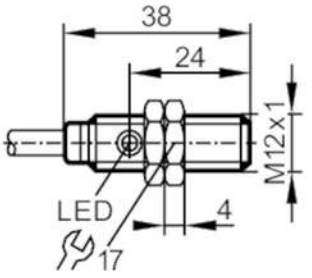
IF6046

Inductive sensor

IFB3002-BPKG/0,8M/ZH



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	2
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 38
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 15
Protection class		II
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]	150
Switching frequency DC	[Hz]	1500
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 %
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / 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

IF6046

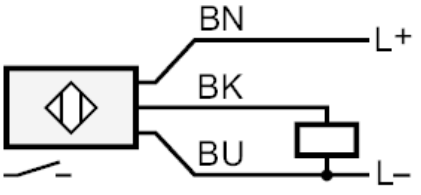
Inductive sensor

IFB3002-BPKG/0,8M/ZH

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 emission	class B
MTTF	[years]	2531	
Mechanical data			
Weight	[g]	32	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M12 x 1 / L = 38	
Thread designation		M12 x 1	
Materials		brass white bronze coated; sensing face: PC	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

Cable: 0.8 m, PUR, Ø 4.9 mm; with wire end ferrules; 3 x 0.34 mm²

Connection



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