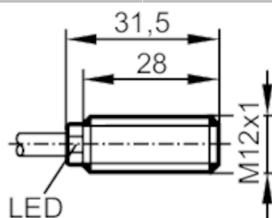




Inductive sensor

IFB3002-BPKG/V4A/2M ZH



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 31.5

Electrical data

Operating voltage [V]	10...30 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]	100
Switching frequency DC [Hz]	1200
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...1.6

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-20...70
Protection	IP 67

IF6037



Inductive sensor

IFB3002-BPKG/V4A/2M ZH

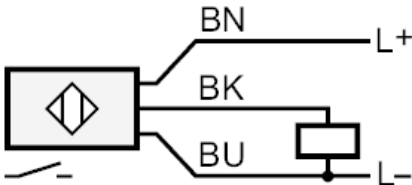
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011 emission	class B
MTTF	[years]	3216

Mechanical data		
Weight	[g]	68.3
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 31.5
Thread designation		M12 x 1
Materials		stainless steel; sensing face: PBT

Displays / operating elements		
Display	switching status	1 x LED, yellow

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Cable: 2 m, PUR; 3 x 0.34 mm²		
Connection		



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