

# IF501A



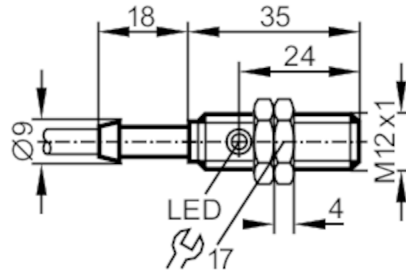
## Inductive sensor

IFB3002-BPKG/3D

Article no longer available - archive entry

Alternative articles: IF503A

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

Electrical design		PNP
Output function		normally open
Sensing range	[mm]	2
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 35

### Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
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]	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 %
Operating distance	[mm]	0...1.6

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Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	3...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	0...60
Protection		IP 67
Tests / approvals		
ATEX marking		 II 3D Ex tD A22 IP67 T80°C X Ta: 0...60°C
EMC		EN 60947-5-2
MTTF	[years]	2778
Mechanical data		
Weight	[g]	0.13
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 35
Thread designation		M12 x 1
Materials		brass special coating; sensing face: PBT
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

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### Electrical connection

Cable: 2 m, PVC; 3 x 0.34 mm<sup>2</sup>

### Connection



Core colours :

BN =	brown
BU =	blue
BK =	black