

IF501A



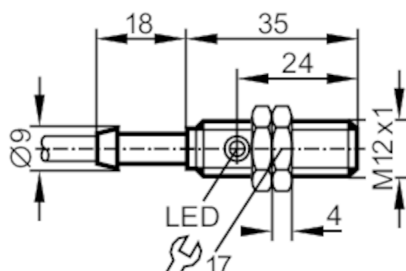
Inductive sensor

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]	$2 \pm 10 \%$
Operating distance [mm]	0...1.6

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of Sr]	3...15

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Switch point drift	[% of Sr]	-10...10
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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	

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
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Accessories

Items supplied	lock nuts: 2
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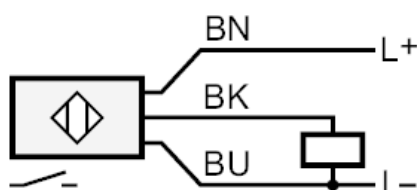
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.34 mm²

Connection



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