

IF501A



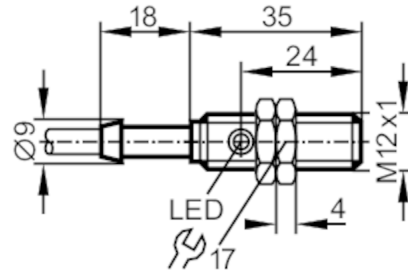
Inductive sensor

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

Accuracy / deviations

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

IF501A



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

Ambient temperature	[°C]	0...60
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Protection		IP 67
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Tests / approvals

ATEX marking	 II 3D Ex tD A22 IP67 T80°C X Ta: 0...60°C
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EMC	EN 60947-5-2
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Mechanical data

Weight	[g]	0.13
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Housing		threaded type
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Mounting		flush mountable
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Dimensions	[mm]	M12 x 1 / L = 35
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Thread designation		M12 x 1
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Materials		brass special coating; sensing face: PBT
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Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied		lock nuts: 2
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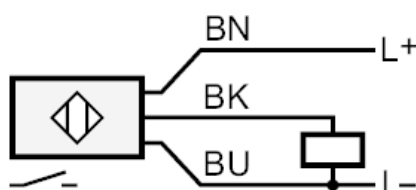
Remarks

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