

Inductive sensor

IFA3002-APKG/20m

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Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 71

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	800
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: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
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IF5304



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Protection	IP 67
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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1874

Mechanical data

Housing	threaded type
Mounting	flush mountable
Dimensions	[mm] M12 x 1 / L = 71
Thread designation	M12 x 1
Materials	brass white bronze coated; sensing face: PC

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: 20 m, PVC; 3 x 0.34 mm²

Connection



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