



Inductive sensor

IEA3001-APOG/20m

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Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	1
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 50

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	III
Reverse polarity protection	no

Outputs

Electrical design	PNP
Output function	normally closed
Max. voltage drop switching output DC [V]	1
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	750
Notes on switching frequency [Hz]	1000 nb
Short-circuit protection	no
Overload protection	no

Monitoring range

Sensing range [mm]	1
Real sensing range S_r [mm]	$1 \pm 10 \%$
Operating distance [mm]	0...0.8

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 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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IE5138



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Protection	IP 67
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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	2737

Mechanical data

Housing	Threaded type
Mounting	flush mountable
Dimensions	[mm] M8 x 1 / L = 50
Thread designation	M8 x 1
Material	housing: brass white bronze coated; 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: 20 m, PVC; 3 x 0.14 mm²

Connection



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