

Inductive sensor

IGA3005-APKG/V4A/10M



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	5
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 80

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]	500
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	5
Real sensing range Sr [mm]	5 ± 10 %
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of Sr]	3...15
Switch point drift [% of Sr]	-10...10

IG5505



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Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

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

Mechanical data

Weight	[g]	524.2
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 80
Thread designation		M18 x 1
Materials		stainless steel (316Ti/1.4571); 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: 10 m, PVC; 3 x 0.5 mm²

Connection



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