

Inductive sensor

IA-3010-ANKG/PPU

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Product characteristics

Electrical design	NPN
Output function	normally open
Sensing range [mm]	10
Housing	tubular
Dimensions [mm]	Ø 20 / L = 77

Electrical data

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

Outputs

Electrical design	NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	10
Real sensing range Sr [mm]	10 ± 10 %
Operating distance [mm]	0...8.1

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
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IA5098



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Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	1781	
Mechanical data		
Housing	tubular	
Mounting	non-flush mountable	
Dimensions [mm]	Ø 20 / L = 77	
Material	PBT	
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied	Mounting clamp: 1	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 2 m, PUR / PVC; 3 x 0.5 mm²		
Connection		



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