

IN5451



Inductive sensor

IN-3007-BPKG/0,3M/AS



- 1 threaded bush M3 Depth 5.8 mm
Tightening torque maximum 1.2 Nm screw fixing class 8.8
when brass insert in contact with counterpart



Product characteristics

Electrical design		PNP
Output function		normally open
Sensing range	[mm]	7
Housing		rectangular
Dimensions	[mm]	40 x 12 x 26

Electrical data

Operating voltage	[V]	10...36 DC; (UL - Class 2 source required)
Current consumption	[mA]	< 15
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]	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]	7
Real sensing range Sr	[mm]	7 ± 10 %
Operating distance	[mm]	0...5.67

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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]	0...60	
Protection	IP 67	
Tests / approvals		
EMC	EN 61000-4-2 ESD	8 kV CD / 15 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011 emission	class B
UL approval	Ta	-25...40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight [g]	26.9	
Housing	rectangular	
Mounting	non-flush mountable	
Dimensions [mm]	40 x 12 x 26	
Material	PBT	
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Cable: 0.3 m, PUR, Ø 3.5 mm; 3 x 0.14 mm ²		
Connector: 1 x M8, straight; coding: A		
		

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Connection

