



Inductive sensor

IS-3002-BPKG/0,3M/AS-610



Electrical data

Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	0.1

Outputs

Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	200
Short-time current rating of switching output	[mA]	200
Switching frequency DC	[Hz]	800
Short-circuit protection		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	2
Real sensing range S_r	[mm]	$2 \pm 10 \%$
Operating distance	[mm]	0...1.6
Safe switching-off distance	[mm]	1.62



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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection	IP 67	
Tests / approvals		
EMC	EN 61000-4-2	-- CD / 15 kV AD
	EN 61000-4-3	10 V/m
	EN 61000-4-4	2 kV CD / 15 kV AD
	EN 61000-4-5	0,5 kV / 15 kV AD
	EN 61000-4-6	10 V / 15 kV AD
	EN 55011	class B / 15 kV AD
Vibration resistance	EN 60947-5-2	
Shock resistance	EN 60947-5-2	
MTTF	[years]	3004
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	18.8
Housing	rectangular	
Mounting	flush mountable	
Dimensions	[mm]	28 x 10 x 16
Materials	housing: PBT; cover: PBT	
Tightening torque	[Nm]	< 0.5; (with washer)
Displays / operating elements		
Display	switching status	1 x LED, yellow
Electrical connection		
Connection	plug	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Cable: 0.3 m, PUR, Ø 3.5 mm; 3 x 0.14 mm² + 3 x 0.14 mm²		
Connector: 1 x M8		
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IS5068

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Connection

