

IS5035



Inductive sensor

IS-3002-BPKG/AS



Electrical data

Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
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]	200
Switching frequency DC	[Hz]	800
Short-circuit protection		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	2
Real sensing range Sr	[mm]	$2 \pm 10 \%$
Operating distance	[mm]	0...1.6

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

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Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65; (with ifm socket duly screwed on: IP67)
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	3523
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	11
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	28 x 10 x 16
Materials		PBT
Tightening torque	[Nm]	< 0.5; (with washer)
Displays / operating elements		
Display	switching status	1 x LED, yellow
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M8		
		

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Connection

