

IS5035



Inductive sensor

IS-3002-BPKG/AS



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
Housing	rectangular
Dimensions [mm]	36.8 x 10.2 x 16

Electrical data

Operating voltage [V]	10...30 DC
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

Monitoring range

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

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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] -25...80
Protection		IP 65; (with ifm socket duly screwed on: IP 67)
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	3060
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	10.9
Housing	rectangular	
Mounting	flush mountable	
Dimensions	[mm]	36.8 x 10.2 x 16
Material	PBT	
Tightening torque	[Nm]	< 0.5; (with washer)
Displays / operating elements		
Display	Switching status	4 x 90° LED, yellow
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M8; coding: A		
		



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Connection

