

IM5052



Inductive sensor

IME3015BFPKG/NPT RT



Product characteristics

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	15
Housing	rectangular
Dimensions [mm]	40 x 40 x 120

Electrical data

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

Outputs

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	250

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Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	15	
Real sensing range Sr	[mm]	15 ± 10 %	
Operating distance	[mm]	0...12.1	
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 65	
Tests / approvals			
EMC	EN 61000-4-2 ESD		4 kV CD
	EN 61000-4-3 HF radiated		3 V/m
	EN 61000-4-4 Burst		2 kV
	EN 61000-4-6 HF conducted		3 V
	EN 55011		class B
MTTF	[years]	1727	
Mechanical data			
Weight	[g]	195.5	
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	40 x 40 x 120	
Materials		PPE	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Pack quantity		1 pcs.	

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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm

Connection

