

IM5038



Inductive sensor

IME2020-FRKG



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 120
Electrical data		
Operating voltage	[V]	10...55 DC
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	1
Permanent current rating of switching output DC	[mA]	400
Switching frequency DC	[Hz]	300

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Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range	[mm]	20
Real sensing range S_r	[mm]	$20 \pm 10 \%$
Operating distance	[mm]	0...16.2

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[X01]	1...15
Switch point drift	[X01]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 65

Tests / approvals

EMC	EN 60947-5-2	
MTTF	[ANN]	1633

Mechanical data

Weight	[g]	183.5
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 40 x 120
Materials		PPE

Displays / operating elements

Display	switching status	1 x LED, yellow
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Remarks

Remarks	5 positions of the active zone possible	
Pack quantity	1 pcs.	

Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

Connection

