

IM510A



Inductive sensor

IME4020BCPKG/3D



Product characteristics		
Output function		complementary
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 105
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Outputs		
Output function		complementary
Max. voltage drop switching output DC	[V]	2.5
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	100

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Short-circuit proof	yes
Overload protection	yes
Detection zone	
Sensing range [mm]	20
Real sensing range Sr [mm]	20 ± 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 [% of Sr]	1...20
Switch point drift [% of Sr]	-10...10
Operating conditions	
Ambient temperature [°C]	-20...60
Protection	IP 65; IP 67
Tests / approvals	
ATEX marking	 II 3D Ex tc IIIC T95°C Dc X
EMC	EN 60947-5-2
MTTF [years]	1326
Mechanical data	
Weight [g]	244.5
Housing	rectangular
Mounting	flush mountable
Dimensions [mm]	40 x 40 x 105
Materials	PC; PA; stainless steel
Displays / operating elements	
Display	switching status 1 x LED, yellow
Remarks	
Remarks	Recommendation: Check the safe functioning of the unit after a short circuit. 5 positions of the active zone possible
Pack quantity	1 pcs.

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Electrical connection

terminals: 0.34...1.5 mm²; Cable sheath: Ø 5...9 mm

Connection

