

IM5046



Inductive sensor

IME3030-FPKG



Product characteristics		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	30
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]	100
Short-circuit protection		yes



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Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone	
Sensing range [mm]	30
Real sensing range S_r [mm]	$30 \pm 10 \%$
Operating distance [mm]	0...24.3

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

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

Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	1701	

Mechanical data	
Weight [g]	184.82
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

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

Electrical connection	
terminals: ...2.5 mm ² ; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5	

Connection

