

IM5037



Inductive sensor

IME2015BFRKG



Product characteristics		
Electrical design		PNP/NPN
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...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]	250



Inductive sensor

IME2015BFRKG

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 60947-5-2
MTTF [years]	1635

Mechanical data	
Weight [g]	189
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	
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

