

IM5131



Inductive sensor

IMC3040-BPKG/K1/US-100-DPS



- | | |
|---|------------|
| 1 | LED yellow |
| 2 | LED green |



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	40
Housing	rectangular
Dimensions [mm]	40 x 40 x 54

Application

Special feature	Correction factor K = 1; Magnetic-field immune
Magnetic-field immune	yes
Max. magnetic field immunity [mT]	300

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 20
Protection class		II
Reverse polarity protection		yes

Outputs

Electrical design	PNP
Output function	normally open



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Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	200
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone		
Sensing range	[mm]	40
Real sensing range Sr	[mm]	40 ± 10 %
Operating distance	[mm]	0...32.4

Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10
Correction factor K = 1		yes

Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 67

Tests / approvals		
EMC	EN 61000-4-2 ESD	8 kV CD / 6 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF	[years]	1161
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191

Mechanical data		
Weight	[g]	132.5
Housing		rectangular
Sensing face		5 positions selectable
Mounting		non-flush mountable
Dimensions	[mm]	40 x 40 x 54
Materials		housing: PA; sensing face: PA black; end cap: PA; clamp: orange; screw: stainless steel (304CU/1.4567)

Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green

Remarks		
Pack quantity		1 pcs.

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Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: locking, rotatable, stainless steel (316L/1.4404)



Connection

