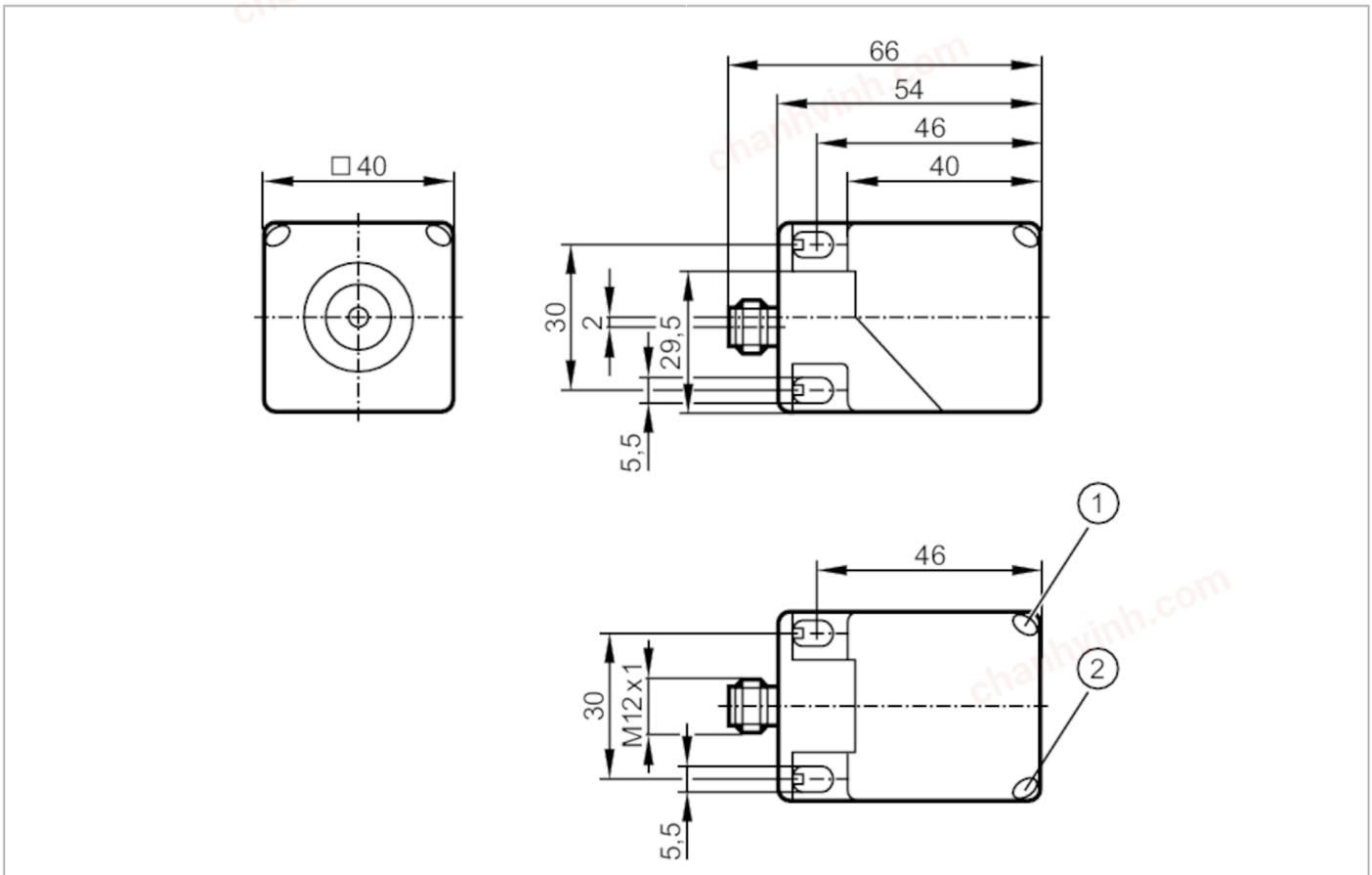
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IM5131

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 (1.4567 / 304Cu)

Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	1 x LED, green

Remarks

Pack quantity	1 pcs.

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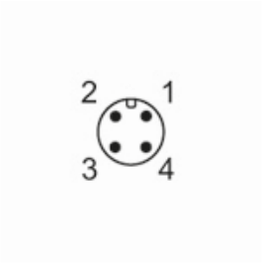
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Electrical connection - plug

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



Connection

