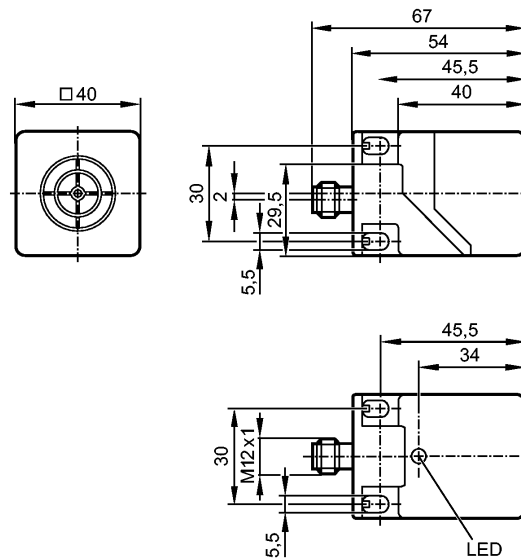


IM511A

IMC4040-CPKG/US/3D/3G

Inductive sensors



Made in Germany

Product characteristics

Inductive sensor

Rectangular, plastics

M12 connector

ATEX approval

Group II, category 3D/3G

gold-plated contacts

Sensing range 40 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open / closed
Voltage drop [V]	< 2.5
Leakage current [mA]	< 0.5
Current rating [mA]	200
Short-circuit proof	yes
Overload protection	yes
Switching frequency [Hz]	60

Range

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

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Hysteresis [% of Sr]	1...20

IM511A

IMC4040-CPKG/US/3D/3G

Inductive sensors

Switch-point drift	[% of Sr]	-10...10
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Environment

Ambient temperature	[°C]	-20...60
Protection		IP 65 / IP 67

Tests / approvals

Marking of the unit	<div> <div>Ex</div> <div>II 3D Ex tc IIIC T95°C Dc X</div> </div> <div> <div>Ex</div> <div>II 3G Ex nA IIC T4 Gc X</div> </div>	
EMC	EN 60947-5-2	2008-08
MTTF	[Years]	1259

Mechanical data

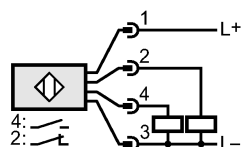
Mounting	non-flush mountable	
Housing materials	PC; PA; TPE	
Weight	[kg]	0.168

Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Wiring



Remarks

Remarks	Recommendation: check the unit for reliable function after a short circuit. 5 positions of the active zone possible
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Pack quantity	[piece]	1
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