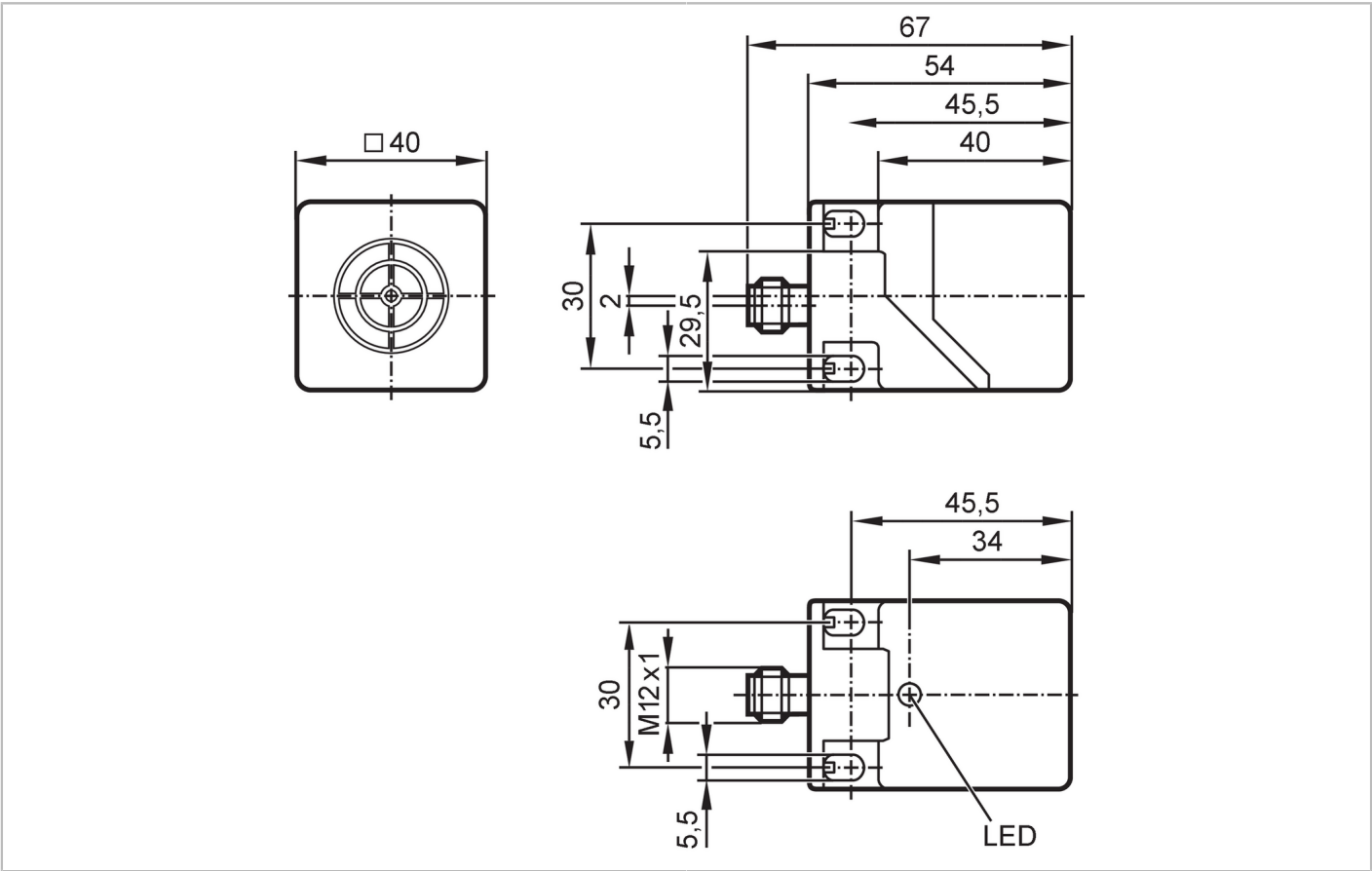


IM511A



Inductive sensor

IMC4040-CPKG/US/3D/3G



Product characteristics

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

Application

System	gold-plated contacts
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Electrical data

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

Outputs

Electrical design	PNP
Output function	complementary
Max. voltage drop switching output DC [V]	2.5
Max. leakage current [mA]	0.5

IM511A



Inductive sensor

IMC4040-CPKG/US/3D/3G

Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	60
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range		
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: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...20
Switch-point drift	[% of Sr]	-10...10

Operating conditions		
Ambient temperature	[°C]	-20...60
Protection		IP 65; IP 67

Tests / approvals		
Approval		BVS 20 ATEX E 057 X; IECEx BVS 20.0044X
ATEX marking		 II 3G Ex ec IIC T4 Gc
		 II 3D Ex tc IIIC T95°C Dc
EMC		EN 60947-5-2
MTTF	[years]	1259

Mechanical data		
Weight	[g]	183.25
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 40 x 54
Material		housing: PC black; sensing face: PC black; Mounting adapter: PA orange; screw: steel galvanized

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories		
Items supplied		Protective cap: 1 x M12x1, steel

Remarks		
Pack quantity		1 pcs.

Electrical connection - plug		
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Connector: 1 x M12; coding: A; Contacts: gold-plated



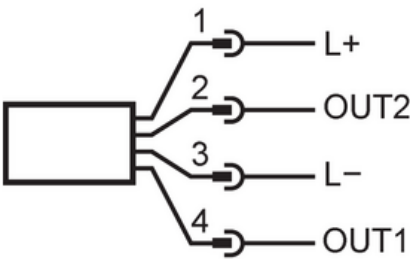
IM511A



Inductive sensor

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Connection



1	L+	
2	OUT2	DO2 (NC)
3	L-	
4	OUT1	DO1 (NO)