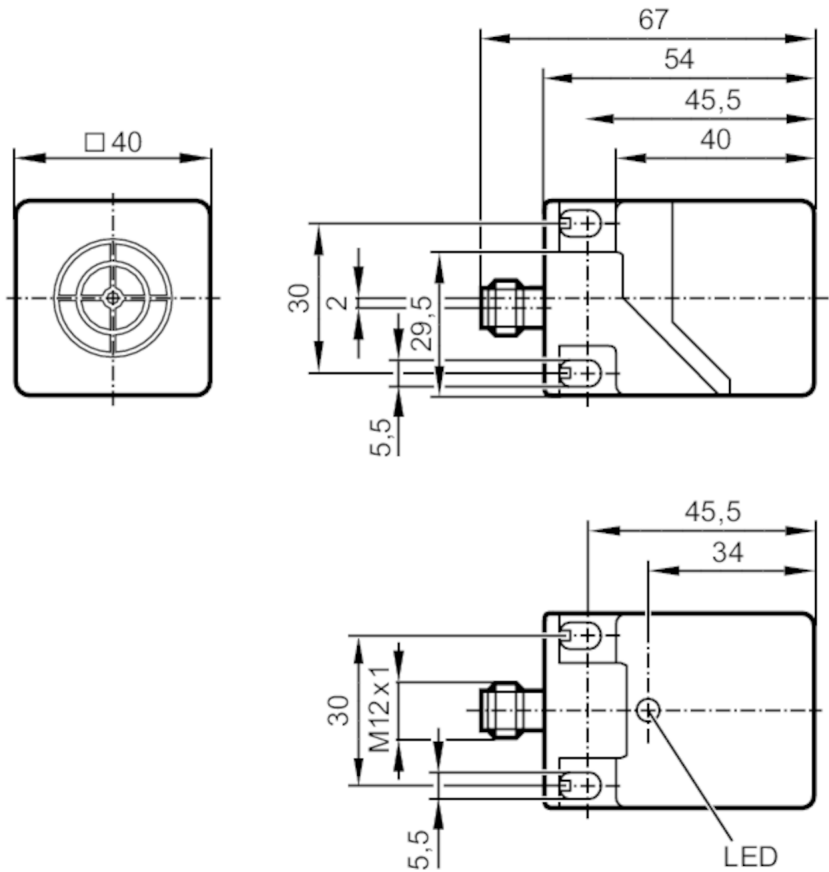


IM512A



Inductive sensor

IMC4020BCPKG/US/3D/3G



Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 54
Application		
System		gold-plated contacts
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

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Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	100
Short-circuit proof		yes
Overload protection		yes

Monitoring range		
Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2

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 20.0044 X
ATEX marking		 II 3G Ex ec IIC T4 Gc
		 II 3D Ex tc IIIC T95°C Dc
EMC		EN 60947-5-2
MTTF	[years]	1326

Mechanical data		
Weight	[g]	170
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 40 x 54
Material		PC; PA; TPE

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

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

Electrical connection - plug

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



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Connection

