

IM509A



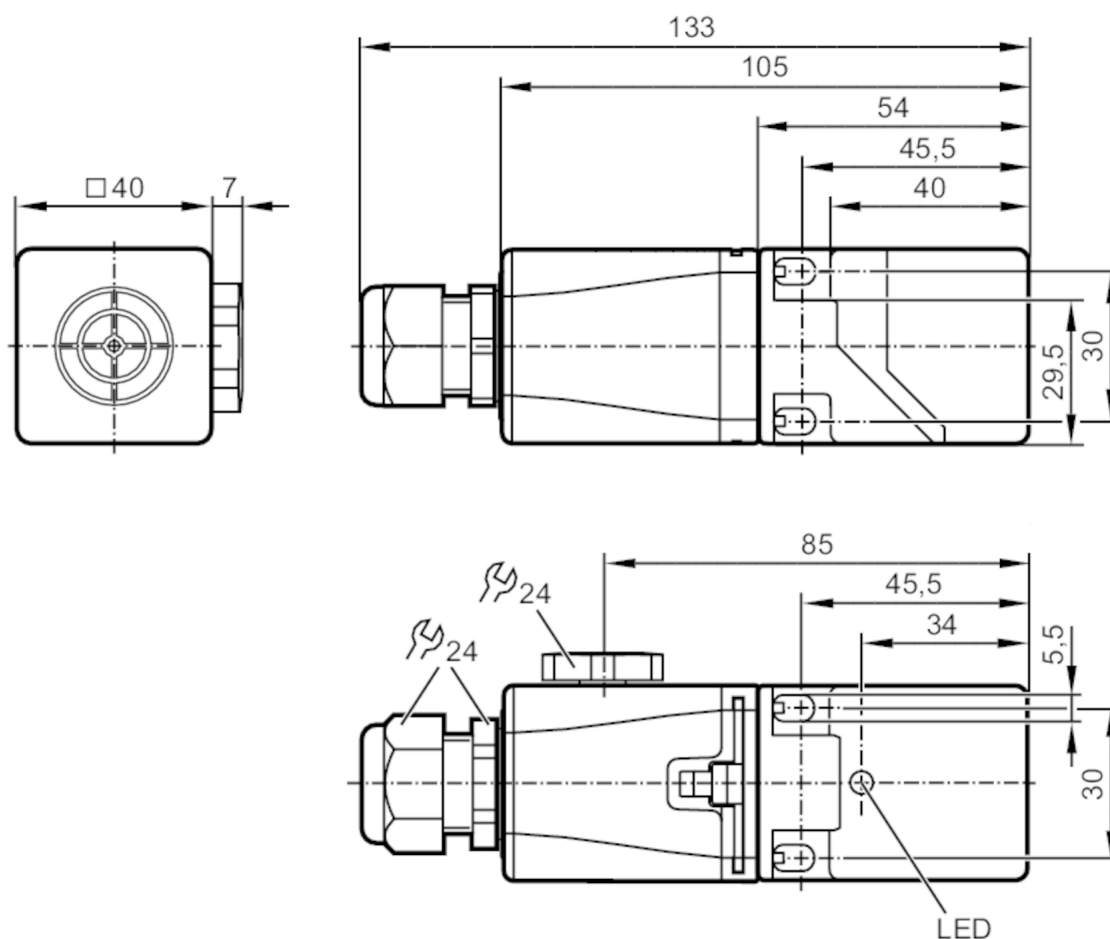
Inductive sensor

IME3020BBPKG/3D

phase-out article

Alternative articles: IM510A

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Output function		normally open
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 105

Electrical data

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

Outputs

Output function		normally open
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Inductive sensor

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Max. voltage drop switching output DC	[V]	2.5
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	100
Short-circuit proof		yes
Overload protection		yes

Detection zone		
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 / aluminium: 0.3 / copper: 0.2
Hysteresis	[X01]	1...20
Switch point drift	[X01]	-10...10

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

Tests / approvals		
ATEX marking		II 3D Ex tc IIIC T95°C Dc X
EMC		EN 60947-5-2
MTTF	[ANN]	1679

Mechanical data		
Weight	[g]	244
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 40 x 105
Materials		PC; PA; stainless steel

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

Remarks		
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit. 5 positions of the active zone possible
Pack quantity		1 pcs.

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Electrical connection

terminals: 0.34...1.5 mm²; Cable sheath: Ø 5...9 mm

Connection

