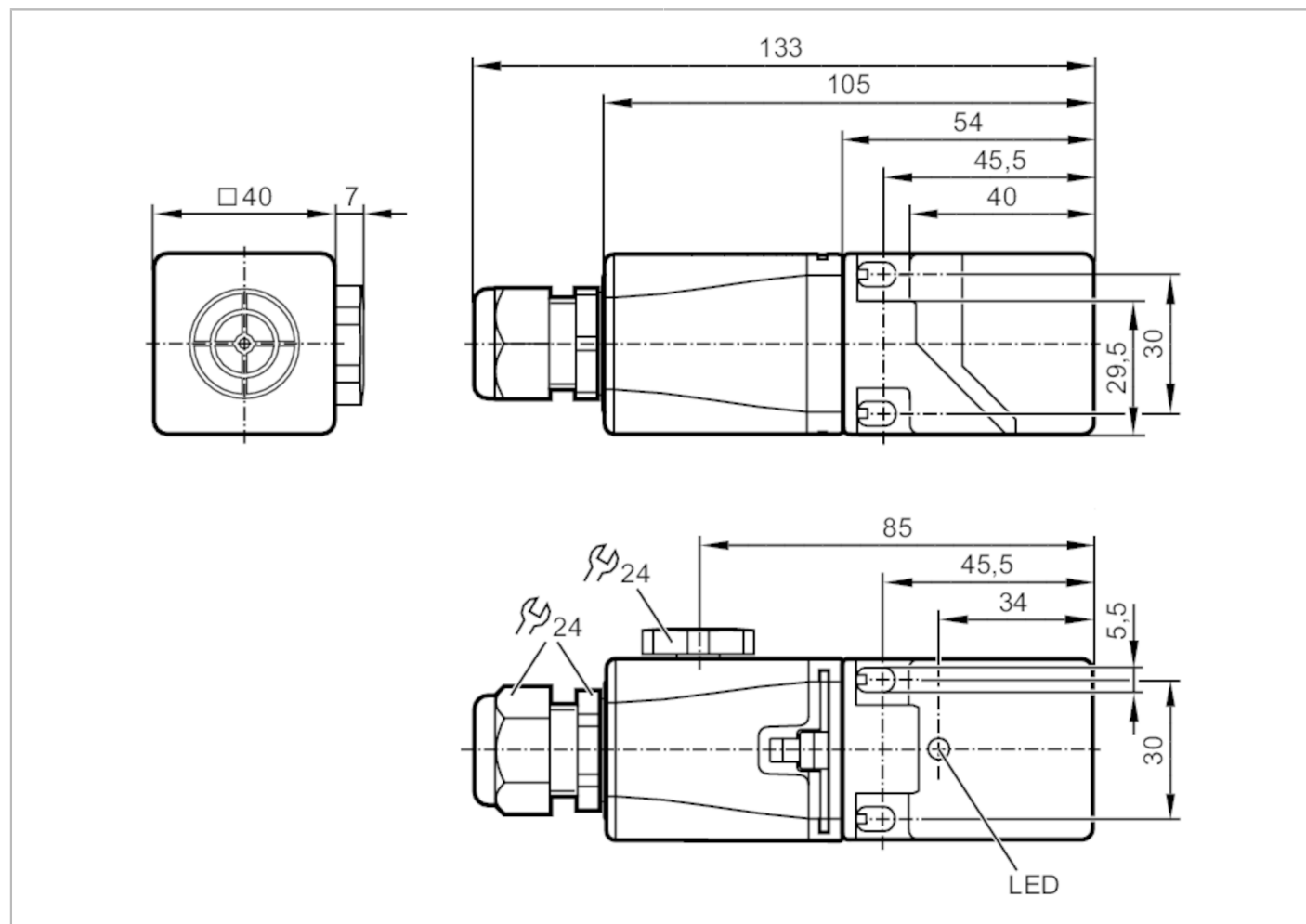


IM509A



Inductive sensor

IME3020BBPKG/3D



Electrical data

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

Outputs

Output function		normally open
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

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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	[% 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		
ATEX marking		 II 3D Ex tc IIIC T95°C Dc X
EMC		EN 60947-5-2
MTTF	[years]	1679
Mechanical data		
Weight	[g]	242
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

