

IM502A



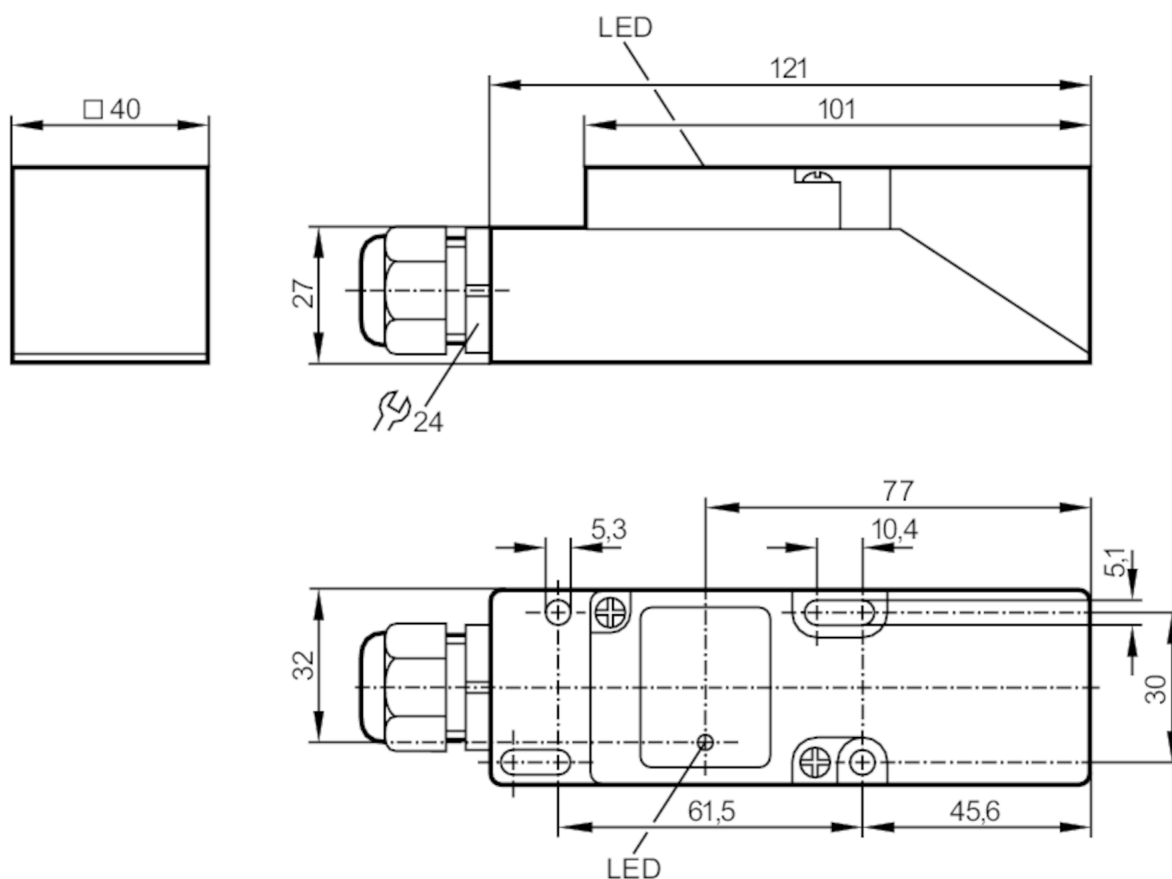
Inductive sensor

IME3020-FPKG/3D

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Alternative articles: IM506A

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



Product characteristics

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	20
Housing	rectangular
Dimensions [mm]	40 x 40 x 121

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open / normally closed; (selectable)

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Inductive sensor

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Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	350
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone		
Sensing range	[mm]	20
Real sensing range Sr	[mm]	15 ± 10 %
Operating distance	[mm]	0...12.1

Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions		
Ambient temperature	[°C]	-20...60
Note on ambient temperature		when used outside the hazardous area: -25...80 °C
Protection		IP 54; (when used outside the hazardous area: IP 65)

Tests / approvals		
ATEX marking		II 3D Ex tD A22 IP54 T80°C X
EMC	EN 60947-5-2	

Mechanical data		
Weight	[g]	0.213
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 40 x 121
Materials		PPE
Tightening torque for cable gland	[Nm]	3.5

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

Remarks		
Pack quantity		1 pcs.

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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 5.5...13 mm; Cable gland: M20 X 1.5

Connection

