

IM500A



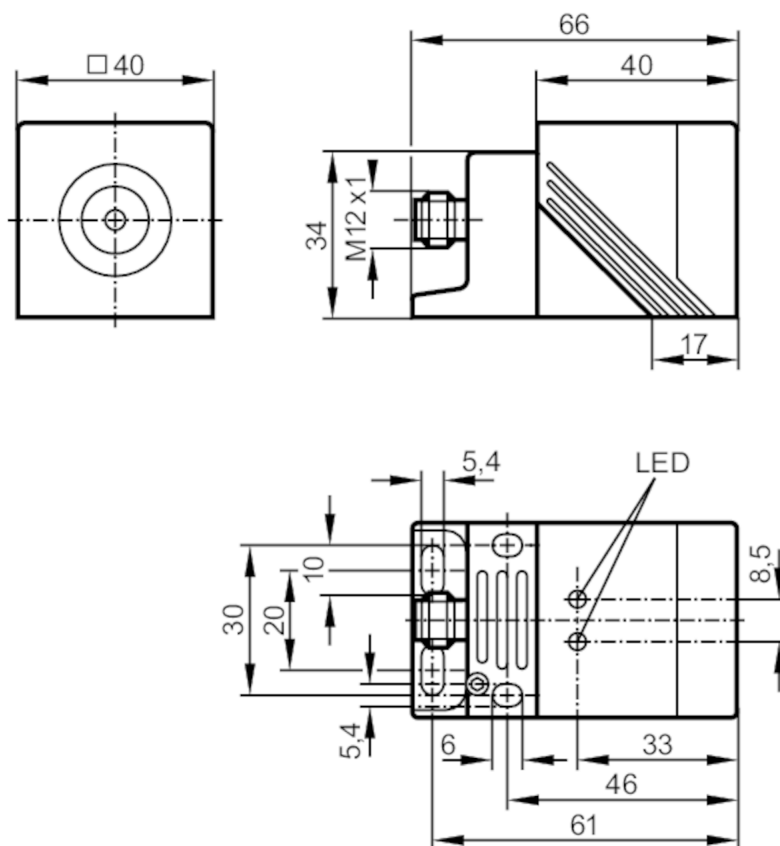
Inductive sensor

IMC4035-CPKG/US/3D

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Alternative articles: IM511A

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



Product characteristics

Electrical design	PNP
Output function	complementary
Sensing range [mm]	35
Housing	rectangular
Dimensions [mm]	40 x 40 x 66

Application

Special feature	Gold-plated contacts
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Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	20; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
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Inductive sensor

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Output function		complementary
Max. voltage drop switching output DC [V]		2.5
Permanent current rating of switching output DC [mA]		200
Switching frequency DC [Hz]		100
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone		
Sensing range [mm]		35
Real sensing range S_r [mm]		$35 \pm 10 \%$
Operating distance [mm]		0...28.3

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

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

Tests / approvals		
ATEX marking		 II 3D Ex tD A22 IP67 T80°C X
EMC		EN 60947-5-2

Mechanical data		
Housing		rectangular
Mounting		non-flush mountable
Dimensions [mm]		40 x 40 x 66
Materials		housing: PPE; sensing face: PPE; end cap: PPS; clamp: PPS

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

Remarks		
Remarks		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

