IM501A

Inductive sensor

IMC4020BCPKG/K1/US/3D

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Alternative articles: IM512A

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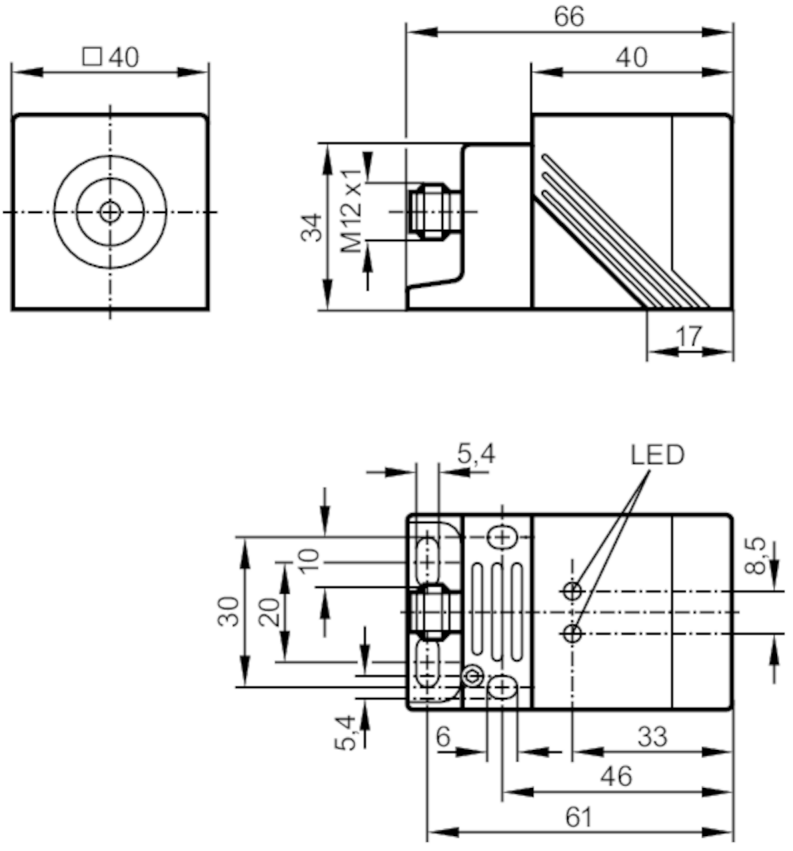

CE

Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 66
Application		
Special feature		Gold-plated contacts; Correction factor K = 1
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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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]		200
Short-circuit protection			yes
Type of short-circuit protection			pulsed
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: 1.1 / brass: 1.1 / aluminium: 1.1 / copper: 1.1
Hysteresis	[% of Sr]		3...15
Switch point drift	[% of Sr]		-10...10
Correction factor K = 1			yes
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			
Weight	[g]		0.174
Housing			rectangular
Mounting			flush mountable
Dimensions	[mm]		40 x 40 x 66
Materials			housing: PPE; sensing face: PPE orange; end cap: PPS; clamp: PPS black; screw: steel galvanised
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green
Remarks			
Pack quantity			1 pcs.

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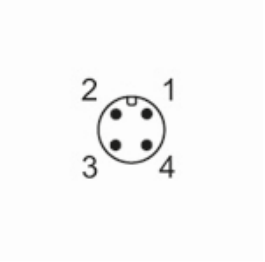
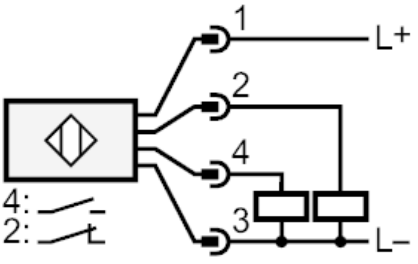
Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: brass, white bronze coated; Contacts: gold-plated



Connection