

IM5107

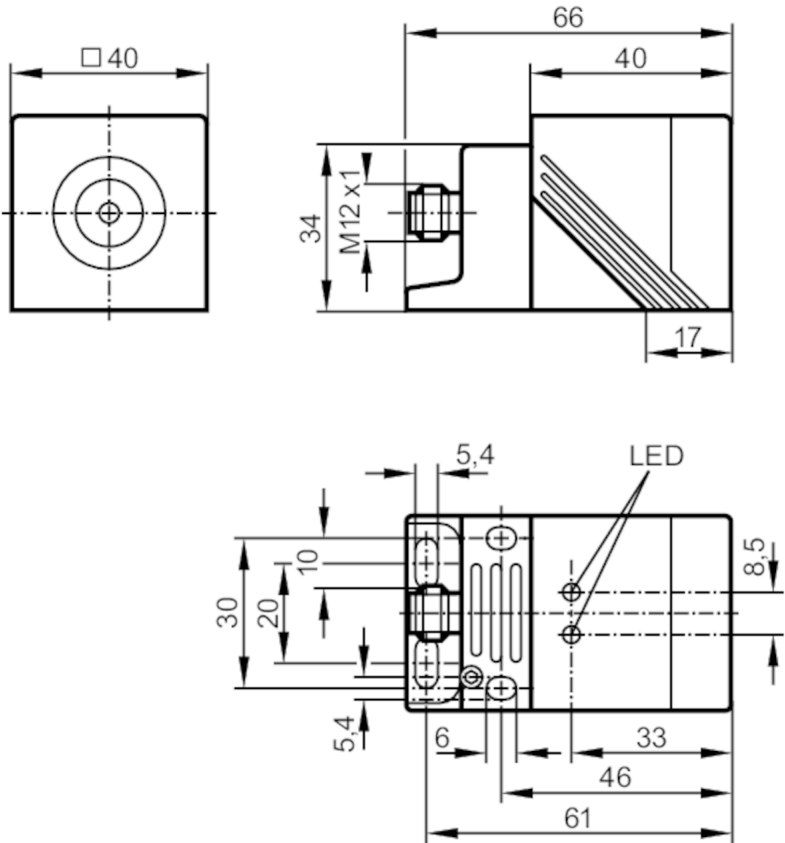


Inductive sensor

IMC3020UBPKG/K1/US-100-DPS

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Alternative articles: IM5128
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics	
Electrical design	PNP
Output function	normally open
Sensing range [mm]	20
Housing	rectangular
Dimensions [mm]	40 x 40 x 66
Application	
System	gold-plated contacts; correction factor = 1
Electrical data	
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes
Max. power-on delay time [ms]	10



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Outputs		
Electrical design	PNP	
Output function	normally open	
Max. voltage drop switching output DC [V]	2.5	
Max. leakage current [mA]	0.1	
Permanent current rating of switching output DC [mA]	250	
Switching frequency DC [Hz]	200	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Monitoring range		
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 / brass: 1 / aluminum: 1 / copper: 1	
Hysteresis [% of Sr]	1...20	
Switch-point drift [% of Sr]	-10...10	
Correction factor = 1	yes	
Operating conditions		
Ambient temperature [°C]	-25...70	
Protection	IP 67	
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
Mechanical data		
Housing	rectangular	
Mounting	flush mountable	
Dimensions [mm]	40 x 40 x 66	
Material	housing: PPE; sensing face: PPE; clamp: PPS	
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
Accessories		
Items supplied	Mounting bracket: 1	
	Allen key: 1	
Remarks		
Pack quantity	1 pcs.	

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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

