

IM5100



Inductive sensor

IMC3020UBPKG/K1/SC/US-100-DPS

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Alternative articles: IM5119

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; weld coated
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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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Output function		normally open	
Max. voltage drop switching output DC	[V]	2.5	
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: 1.1 / aluminum: 1.1 / copper: 1.1	
Hysteresis	[% of Sr]	3...15	
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 60947-5-2	
Mechanical data			
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	40 x 40 x 66	
Material		housing: PPE; sensing face: PPE weld coated; end cap: PPS; 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

