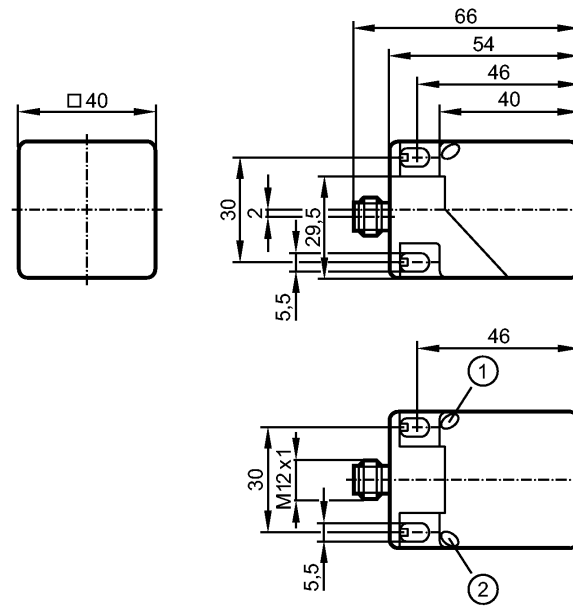


IM5119

IMC3020UBPKG/K1/SC/US-100-DPS

Inductive sensors



1: LED yellow
2: LED green



Product characteristics

Inductive sensor
Rectangular, plastics
Quick disconnect
Weld field immune
Correction factor = 1
5 positions of the sensing face selectable
Sensing range 20 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC; cULus - Class 2 source required
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	200
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	200

Monitoring range

Sensing range [mm]	20
Real sensing range (Sr) [mm]	20 ± 10 %
Operating distance [mm]	0...16.2

Accuracy / deviations

IM5119

IMC3020UBPKG/K1/SC/US-100-DPS

Inductive sensors

Correction factors	mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / aluminium approx. 1 / copper approx. 1	
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Hysteresis	[% of Sr]	1...20
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Switch-point drift	[% of Sr]	-10...10
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Environment

Ambient temperature	[°C]	-25...70
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Protection	IP 67	
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Tests / approvals

EMC	EN 61000-4-2 ESD:	8 kV CD / 4 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: 20Ω)
	EN 61000-4-6 HF conducted:	10 V
	EN 55011:	class B

MTTF	[Years]	1165
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Mechanical data

Mounting	flush mountable	
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Housing materials	housing: PA (polyamide) safe-coated; connector: stainless steel; screw: stainless steel	
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Weight	[kg]	0.141
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Displays / operating elements

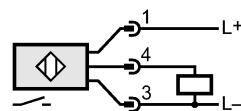
Output status indication	LED	yellow
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Power	LED	green
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Electrical connection

Connection	M12 connector; rotatable, locking	
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Wiring



Remarks

Pack quantity	[piece]	1
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