

1: LED yellow
2: LED green



Made in Germany

Product characteristics

Inductive sensor
Rectangular, plastics
Connector
Sensing face in 5 positions selectable
gold-plated contacts
Sensing range 20 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Leakage current [mA]	< 0.1
Current rating [mA]	200
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	100

Range

Sensing range [mm]	20
Operating distance [mm]	0...16.2

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis [% of Sr]	1...20

IMC3020BBPKG/US-100-DPS

Inductive sensors

Environment

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

Tests / approvals

EMC	EN 61000-4-2 ESD:	8 kV CD / 6 kV AD
	EN 61000-4-3 HF radiated:	10 V/m (80...1000 MHz)
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-5 Surge:	0.5 kV (line to line, Ri: 2Ohm)
	EN 61000-4-6 HF conducted:	10 V (0.15...80 MHz)
	EN 55011:	class B

MTTF	[Years]	1590
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Mechanical data

Mounting		flush mountable
Housing materials		PA (polyamide)
Weight	[kg]	0.144

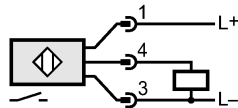
Displays / operating elements

Output status indication	LED	yellow
Operation	LED	green

Electrical connection

Connection		M12 connector; rotatable, locking, gold-plated contacts
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Wiring



Remarks

Remarks		cULus - Class 2 source required
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Pack quantity	[piece]	1
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