efector100

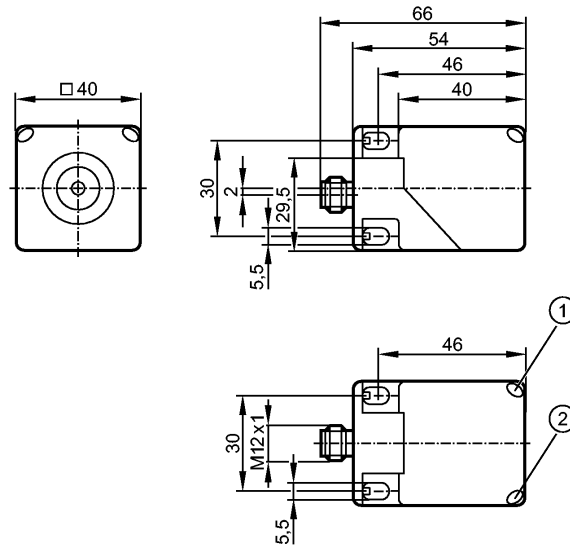# IM5123
IMC4020BCPKG/US-100-DPA

Inductive sensors

1: LED yellow
2: LED green

Made in Germany

Product characteristics

Inductive sensor

Rectangular, plastics

Connector

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 *)
Current consumption	[mA]	< 25
Protection class		II
Reverse polarity protection		yes

Outputs

Output function		complementary
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

Environment

Ambient temperature	[°C]	-25...70

IM5123

IMC4020BCPKG/US-100-DPA

Inductive sensors

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]	1270	

Mechanical data

Mounting		flush mountable
Housing materials		PA (polyamide)
Weight	[kg]	0.146

Displays / operating elements

Output status indication	LED	yellow
Operation	LED	green

Electrical connection

Connection		M12 connector; rotatable, locking

Wiring
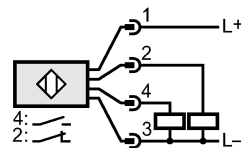
Remarks

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

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