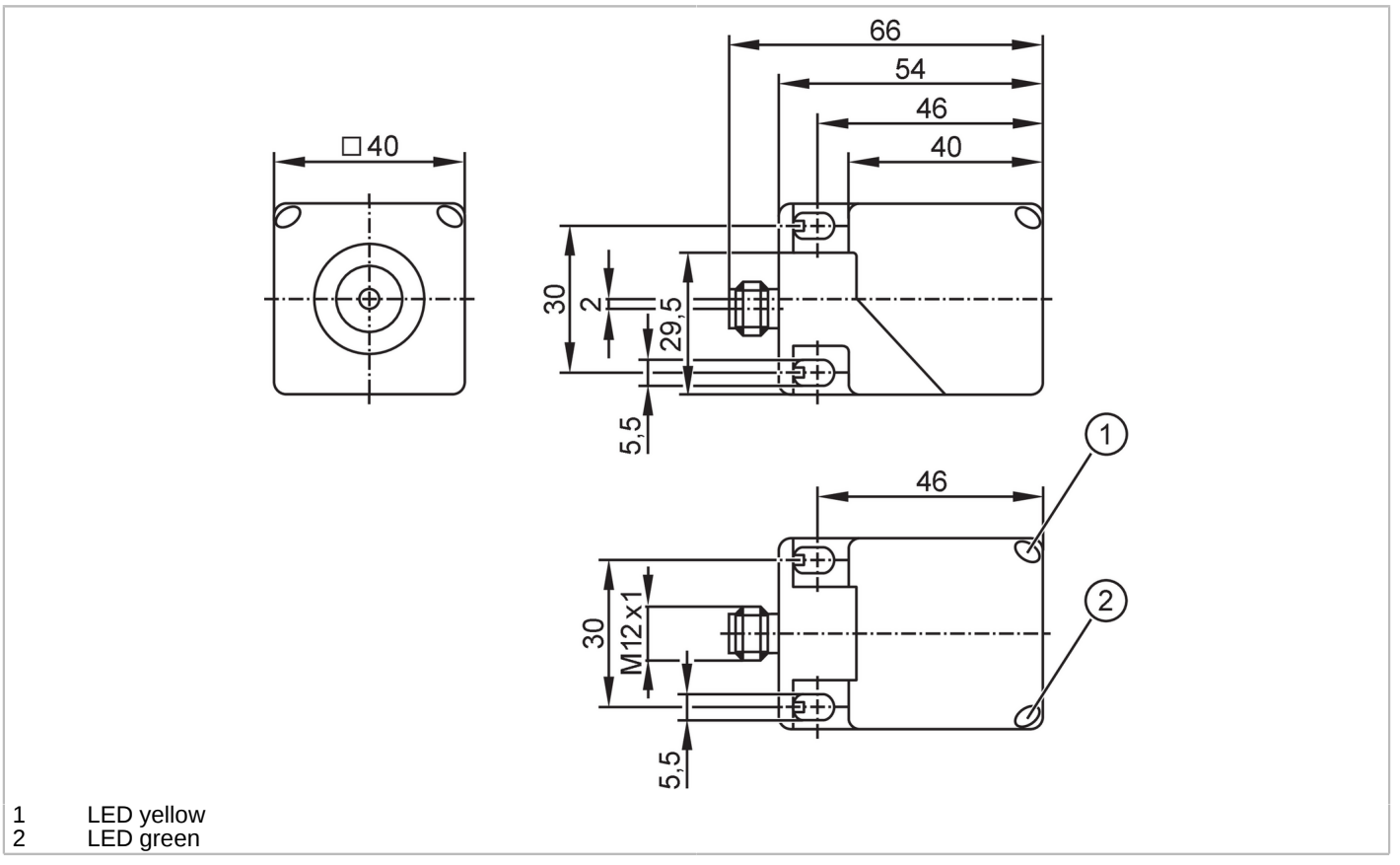
IM5123

Inductive sensor

IMC4020BCPKG/US-100-DPA



1 LED yellow
2 LED green

Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 54
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 25
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		complementary
Max. voltage drop switching output DC	[V]	2.5
Max. leakage current	[mA]	0.1
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	100
Short-circuit protection		yes

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Inductive sensor

IMC4020BCPKG/US-100-DPA

Type of short-circuit protection			pulsed
Overload protection			yes
Detection zone			
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: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]		1...20
Switch point drift	[% of Sr]		-10...10
Operating conditions			
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
		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
MTTF	[years]		1270
Embedded software included			no
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval no.	A075
		File number UL	E174191
Mechanical data			
Weight	[g]		146.5
Housing			rectangular
Sensing face			5 positions selectable
Mounting			flush mountable
Dimensions	[mm]		40 x 40 x 54
Materials			housing: PA; sensing face: PA black; bevelled housing part: PA; clamp: orange; screw: stainless steel (304CU/1.4567)
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green
Remarks			
Pack quantity			1 pcs.

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Inductive sensor

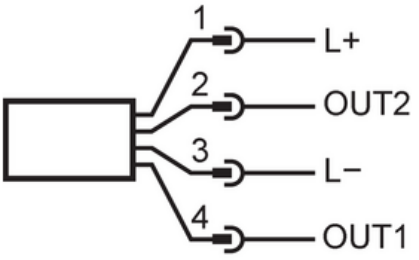
IMC4020BCPKG/US-100-DPA

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4; Locking: locking, rotatable



Connection



1	L+	
2	OUT2	DO2 (NC)
3	L-	
4	OUT1	DO1 (NO)