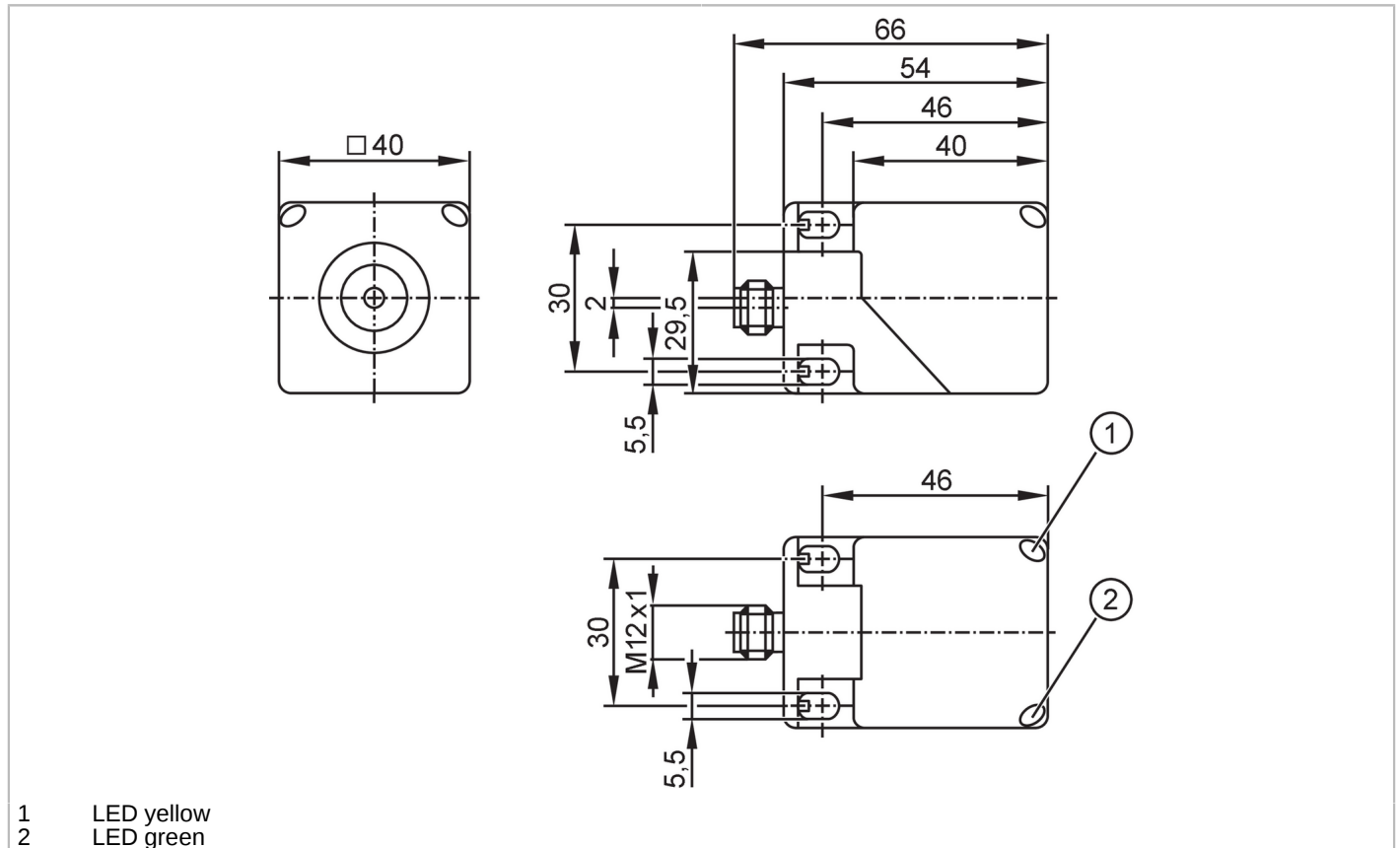


IM5116



Inductive sensor

IMC3035-BPKG/US-100-DPS



Product characteristics	
Electrical design	PNP
Output function	normally open
Sensing range [mm]	35
Housing	rectangular
Dimensions [mm]	40 x 40 x 54
Electrical data	
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes
Outputs	
Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	80
Short-circuit protection	yes
Type of short-circuit protection	pulsed

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Overload protection	yes
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Detection zone

Sensing range [mm]	35
Real sensing range Sr [mm]	35 ± 10 %
Operating distance [mm]	0...28.3

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]	1494	
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data

Weight [g]	152.5
Housing	rectangular
Sensing face	5 positions selectable
Mounting	non-flush mountable
Dimensions [mm]	40 x 40 x 54
Materials	PA

Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	1 x LED, green

Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

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



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Connection

