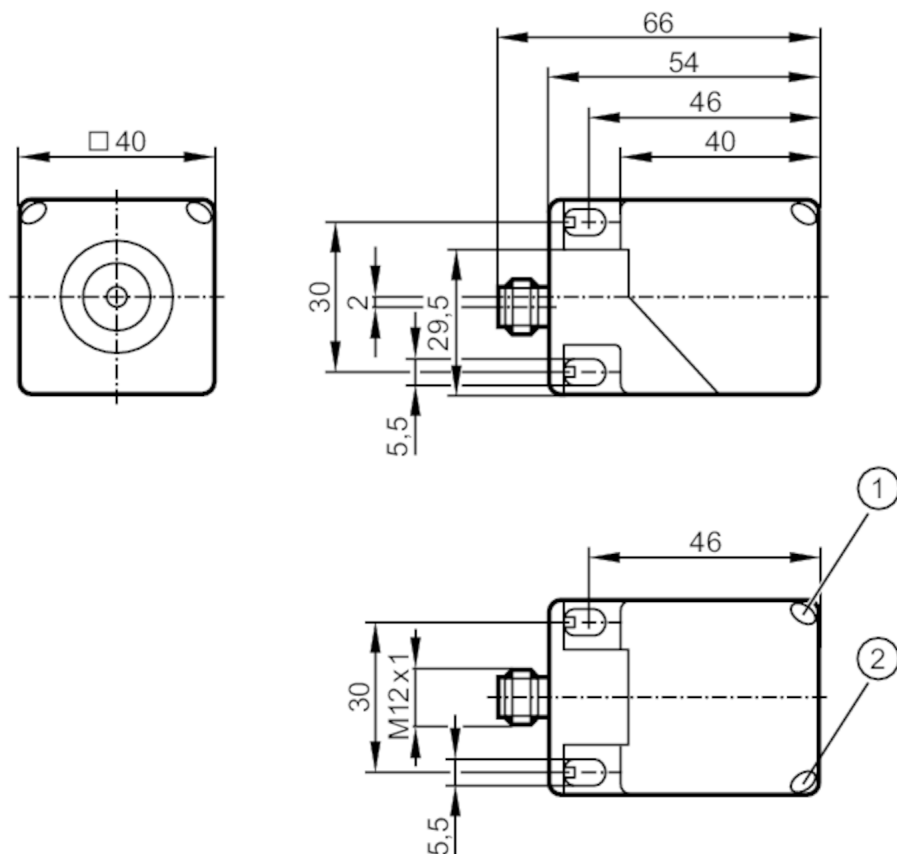


IM5115



Inductive sensor

IMC3020BBPKG/US-100-DPS



- | | |
|---|------------|
| 1 | LED yellow |
| 2 | LED green |



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	20
Housing	rectangular
Dimensions [mm]	40 x 40 x 54

Application

System	gold-plated contacts
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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

IM5115



Inductive sensor

IMC3020BBPKG/US-100-DPS

Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	100
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range

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

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...20

Operating conditions

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

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 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF	[years]	1590
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	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
Material		PA

Displays / operating elements

Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Remarks

Pack quantity		1 pcs.
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IM5115



Inductive sensor

IMC3020BBPKG/US-100-DPS

Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: locking, rotatable; Contacts: gold-plated



Connection

