

1: LED yellow

2: LED green



Made in Germany

Product characteristics

Inductive sensor

Rectangular, plastics

Connector

Sensing face in 5 positions selectable

Sensing range 35 mm; [nf] non-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]	80

Range

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

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

IMC3035-BPKG/US-100-DPS

Inductive sensors

Switch-point drift	[% of Sr]	-10...10
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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: 20hm) EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz) EN 55011: class B
MTTF	[Years]	1494

Mechanical data

Mounting		non-flush mountable
Housing materials		PA (polyamide)
Weight	[kg]	0.153

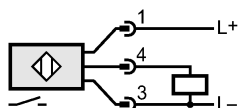
Displays / operating elements

Output status indication	LED	yellow
Operation	LED	green

Electrical connection

Connection		M12 connector; rotatable, locking
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Wiring



Remarks

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