

Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Connector

Sensing range 15 mm; [nf] non-flush mountable

Electrical data

Electrical design

Operating voltage [V]

AC/DC

20...250 AC/DC

Protection class

I

Reverse polarity protection

no

Outputs

Output function

Normally closed

Voltage drop [V]

< 6.5

Minimum load current [mA]

5

Leakage current [mA]

< 2.5 (250 V AC) / < 0.8 (24 V DC)

Current rating

- Current rating (continuous) [mA]

250 AC / 100 DC; 350 AC (...50 °C)

- Current rating (peak) [mA]

î: 2.2 A (20 ms / 0.5 Hz)

Short-circuit proof

no

Overload protection

no

Switching frequency [Hz]

25 AC / 30 DC

Range

Sensing range [mm]

15

Real sensing range (Sr) [mm]

15 ± 10 %

Operating distance [mm]

0...12.1

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3

Hysteresis [% of Sr]

3...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

MTTF [Years]

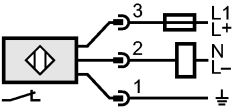
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Mechanical data

II0294 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mounting	non-flush mountable
Housing materials	Brass nickel-plated; PBT
Weight [kg]	0.147
Displays / operating elements	
Output status indication LED	Red
Electrical connection	
Connection	1/2" connector

Wiring



Note: miniature fuse to IEC60127-2 sheet 1,
 $\leq 2\text{ A}$ (fast acting)

Accessories	
Accessories (included)	2 lock nuts
Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity [piece]	1