

1: LED green
2: LED yellow



Product characteristics

Inductive sensor

Rectangular, plastics

Terminals

Sensing range 20 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...30 DC

Current consumption [mA]

20 (24 V)

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

complementary

Voltage drop [V]

< 2

Current rating [mA]

200

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

400

Monitoring range

Sensing range [mm]

20

Real sensing range (Sr) [mm]

20 ± 10 %

Operating distance [mm]

0...16.2

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.3

Hysteresis [% of Sr]

1...10

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...85

Protection

IP 68 / IP 69K

Tests / approvals

EMC

EN 61000-4-2 ESD:

8 kV CD / 8 kV AD

EN 61000-4-3 HF radiated:

10 V/m

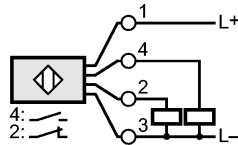
EN 61000-4-4 Burst:

2 kV

IV5004 - Inductive sensor - eclass: 27270101 / 27-27-01-01

	EN 61000-4-6 HF conducted:	15 V
	EN 55011:	class B
Vibration resistance	EN 60068-2-6 Fc	10 g (10...2000 Hz) / 10 Zyklen
Shock resistance		30 g (11 ms half sine; 3 shocks in each direction along the three coordinate axes)
	EN 60068-2-27 Ea	
Continuous shock resistance		40 g (6 ms, 4000 shocks each in every direction of the 3 coordinate axes)
	EN 60068-2-29 Eb	
Fast temperature changes	EN 60068-2-14 Na	TA = -40°C; TB = 85°C; t1 = 30 min; t2 = 10 s; 50 cycles
Mechanical data		
Mounting		flush mountable
Housing materials		PA 6.6; diecast zinc epoxy coated; active face: PA 6.6; LED window: PA (polyamide); screws: stainless steel 1.4305
Weight [kg]		0.258
Displays / operating elements		
Output status indication	LED	yellow
Power	LED	green
Electrical connection		
Connection		terminals up to 2.5 mm ² ; cable gland M20 x 1.5

Wiring



Remarks	
Remarks	5 positions of the active zone possible cable gland (E11270) to be ordered separately
Pack quantity [piece]	1