

Induktive Sensoren  
Inductive sensors  
DéTECTEURS inductifs

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# IR18V.P08S-11197222

Induktive Näherungsschalter

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Inductive proximity switch

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DéTECTEURS de proximité inductifs

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11197222



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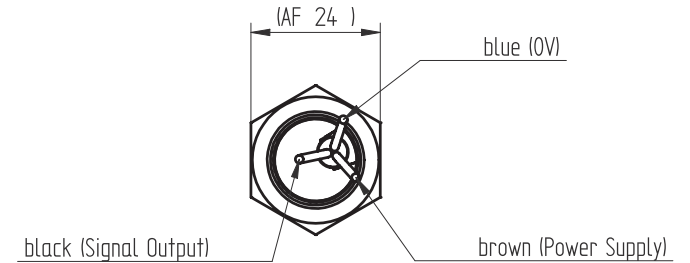
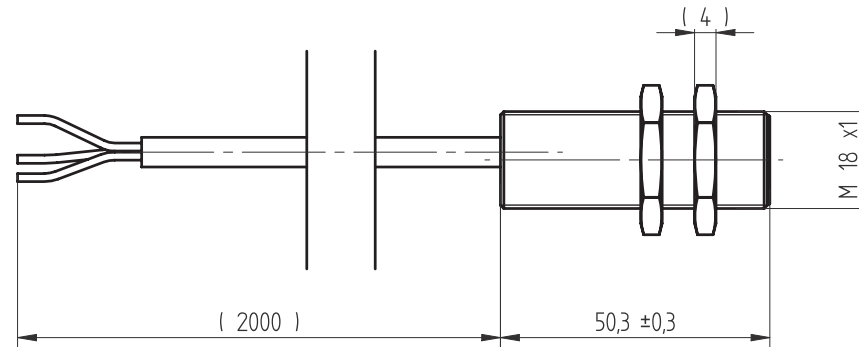
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NOTES:

1. ELECTRICAL SPECIFICATION:

- a. VOLTAGE: 7V...48 VDC (12V / 24V vehicles supply)
- b. SUPPLY CURRENT: ≤ 10mA
- d. SENSING DISTANCE S<sub>n</sub>: 8mm
- e. OUTPUT CIRCUIT: PNP
- f. MAX. OUTPUT CURRENT: ≤ 200mA
- g. TEMPERATURE DRIFT: +/- 10%
- h. VOLTAGE DROP: < 2VDC
- i. SWITCHING FREQUENCY: < 800Hz
- j. REVERSE POLARITY PROTECTION: yes
- k. SHORT CIRCUIT PROTECTION: yes

2. MECHANICAL DATA:

- a. CYLINDRICAL THREADED (M18 x 1)
- b. HOUSING MATERIAL: BRASS NICKEL PLATED
- c. CABLE: PUR 3x0.75mm<sup>2</sup>
- d. MAXIMUM INSTALLATION TORQUE: 40Nm (at 22mm of front part and at 15mm of back part the tightening torque is reduced by 30%)

3. AMBIENT CONDITIONS:

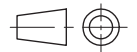
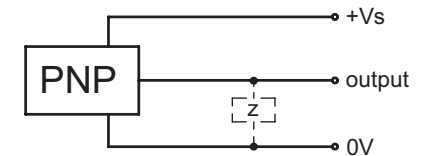
- a. STORAGE TEMPERATURE: -40°C...+85°C
- b. OPERATING TEMPERATURE: -40°C...+85°C

4. SENSOR MEETS THE FOLLOWING REQUIREMENTS EMC (no ECE Type Approval)

- a. ELECTROMAGNETIC SUSCEPTIBILITY:
  - ISO 11452-4, BCI (2011-12) Frequency Range: 0.5...400MHz, 200mA (AM)
  - ISO 11452-2, Free Field (2004-11), Frequency Range: 200...1000MHz (AM)
  - 800...2700MHz (PM); 200...2700MHz (CW)
- b. COMPONENT LEVEL EMISSIONS: CISPR 25 (2002)
  - Broadband: 0.53...30MHz: 24dBμV/m; 30...1000MHz: UN/ECE R10 Rev 5 ch. 6.5.2.1
  - Narrowband: 0.53...30MHz: 15dBμV/m, 30...1000MHz: UN/ECE R10 Rev 5 ch. 6.6.2.1;
  - 1159...1590MHz: 10dBμV/m; 2320...2500MHz: 25dBμV/m
- c. ELECTROSTATIC DISCHARGE (UN-POWERED): ISO 10605
  - Air max. +/- 15kV, Contact max. +/- 15kV
  - ELECTROSTATIC DISCHARGE (POWERED): ISO 10605
  - Air max. +/- 15kV, Contact max. +/- 20kV
- d. FAST TRANSIENT (24V): ISO 7637-3 Pulse b/a
- e. POSITIVE / NEGATIVE SWITCHING SPIKES (12V / 24V): ISO 7637-2 Pulse 3b/3a, Status A
- f. PARALLEL INDUCTIVE LOAD SWITCHING (12V / 24V): ISO 7637-2 Pulse 1, Status C
- g. LOAD DUMP (24V) CLAMPED 58V: ISO7637-2 Pulse 5b (ISO 16750-2), Status A
- h. DC MOTOR ACTING AS A GENERATOR TRANSIENT (12V / 24V): ISO 7637-2 Pulse 2b, Status C
- i. WIRING HARNESS INDUCTIVE SWITCHING (12V / 24V): ISO 7637-2 Pulse 2a, Status A
- j. STARTING PROFILE (12V / 24V): ISO7637-2 Pulse 4 (ISO 16750-2), Status C/B

5. SENSOR MEETS THE FOLLOWING REQUIREMENTS ENVIRONMENTAL

- a. PROTECTION CLASS: IP69K (FRONT PART)/ IP68 (1,5m/ 24h)
- b. RANDOM VIBRATION: IEC 600068-2-64: 10...2000Hz, 117.1m/s<sup>2</sup> (rms), 8h/axis
- c. OPERATING SHOCK: IEC 600068-2-27: 10Shocks/axis, 50g, 11ms
- d. BENCH HANDLING SHOCK: IEC 60068-2-31: 1m / 3 Drops per side



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IR18V.P08S-11197222								Scale	Drawn	25.01.2018	ts	
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