

Induktive Sensoren
Inductive sensors
DéTECTEURS inDUCTIFS

IR12V.P04S-11197189

Induktive Näherungsschalter

Inductive proximity switch

DéTECTEURS de proximité inDUCTIFS



11197189



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A

B

C

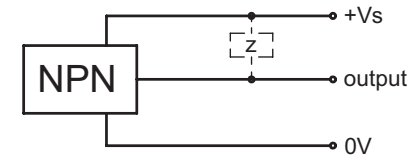
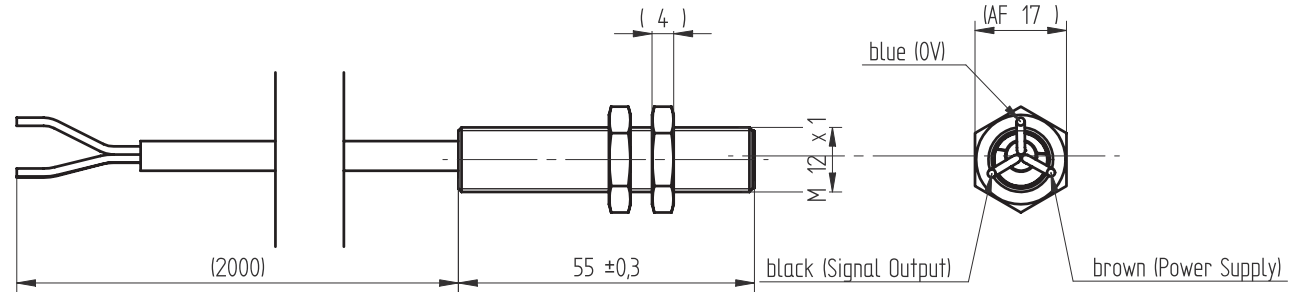
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F

NOTES:

1. ELECTRICAL SPECIFICATION:
 - a. VOLTAGE: 7V...48 VDC (12V / 24V vehicles supply)
 - b. SUPPLY CURRENT: $\leq 10\text{mA}$
 - d. SENSING DISTANCE S_n : 4mm
 - e. OUTPUT CIRCUIT: NPN
 - f. MAX. OUTPUT CURRENT: $\leq 200\text{mA}$
 - g. TEMPERATURE DRIFT: $\pm 10\%$
 - h. VOLTAGE DROP: $< 2\text{VDC}$
 - i. SWITCHING FREQUENCY: $< 2000\text{Hz}$
 - j. REVERSE POLARITY PROTECTION: yes
 - k. SHORT CIRCUIT PROTECTION: yes
2. MECHANICAL DATA:
 - a. CYLINDRICAL THREADED (M12 x 1)
 - b. HOUSING MATERIAL: BRASS NICKEL PLATED
 - c. CABLE: PUR 3x0.75mm²
 - d. MAXIMUM INSTALLATION TORQUE: 15Nm (at 10mm of front part and at 13mm of back part the tightening torque is reduced by 30%)
3. AMBIENT CONDITIONS:
 - a. STORAGE TEMPERATURE: $-40^\circ\text{C} \dots +85^\circ\text{C}$
 - b. OPERATING TEMPERATURE: $-40^\circ\text{C} \dots +85^\circ\text{C}$
4. SENSOR MEETS THE FOLLOWING EMC REQUIREMENTS (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: 24dB $\mu\text{V}/\text{m}$; 30...1000MHz: UN/ECE R10 Rev 5 ch. 6.5.2.1
 - Narrowband: 0.53...30MHz: 15dB $\mu\text{V}/\text{m}$, 30...1000MHz: UN/ECE R10 Rev 5 ch. 6.6.2.1; 1159...1590MHz: 10dB $\mu\text{V}/\text{m}$; 2320...2500MHz: 25dB $\mu\text{V}/\text{m}$
 - c. ELECTROSTATIC DISCHARGE (UN-POWERED): ISO 10605
 - Air max. $\pm 15\text{kV}$, Contact max. $\pm 15\text{kV}$
 - d. ELECTROSTATIC DISCHARGE (POWERED): ISO 10605
 - Air max. $\pm 15\text{kV}$, Contact max. $\pm 20\text{kV}$
 - e. FAST TRANSIENT (24V): ISO 7637-3 Pulse 3b/a
 - f. POSITIVE / NEGATIVE SWITCHING SPIKES (12V / 24V): ISO 7637-2 Pulse 3b/3a, Status A
 - g. PARALLEL INDUCTIVE LOAD SWITCHING (12V / 24V): ISO 7637-2 Pulse 1, Status C
 - h. LOAD DUMP (24V) CLAMPED 58V: ISO7637-2 Pulse 5b (ISO 16750-2), Status A
 - i. DC MOTOR ACTING AS A GENERATOR TRANSIENT (12V / 24V): ISO 7637-2 Pulse 2b, Status C
 - j. WIRING HARNESS INDUCTIVE SWITCHING (12V / 24V): ISO 7637-2 Pulse 2a, Status A
 - k. STARTING PROFILE (12V / 24V): ISO7637-2 Pulse 4 (ISO 16750-2), Status C/B
5. SENSOR MEETS THE FOLLOWING ENVIRONMENTAL REQUIREMENTS
 - a. PROTECTION CLASS: IP69K (FRONT PART) / IP68 (1,5m/ 24h)
 - b. RANDOM VIBRATION: IEC 600068-2-64: 10...2000Hz, 117.1m/s² (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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	Rev	Drawn	Approved		Mod	Rev	Drawn	Approved		Project TLD 12er 18er Agri						
	b	23.03.2018	ts	23.03.2018		rou					Replaced by					
	Mod				Mod					Replacement for						
	IR12V.P04S-11197189										Scale	Drawn	26.01.2018	ts		
											1:1	Checked	25.01.2018	rou		
												Approved	25.01.2018	rou		
	Baumer										Baumer Electric AG Postfach · Hummelstrasse 17 · CH-8501 Frauenfeld Phone +41 (0)52 728 11 22 · Fax +41 (0)52 728 11 44			11197189	112.3123	B