SP 4001 Assembly Instruction

novotechnik Siedle Group

Novotechnik U.S., Inc. 155 Northboro Road Southborough, MA 01772

1. Safety notes

1.1 Installation and startup

The rotary sensor must be installed by qualified personnel in consideration of all relevant safety regulations.

In case of unauthorized modifications, non-permitted usage or non-observance of installation instructions, the warranty and liability claims will be lost.

All personal protection measures must be taken before startup in case of a sensor defect or failure.

1.2 Electrical connections

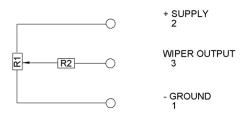
The specified supply voltage is to be applied only at the terminals provided.

Non-observance of the pin configuration will result in destruction of the device and loss of warranty. Please always check the connections carefully before turning on the system.

For a proper function the appropriate combination of male-/female contact material is to be observed.

2. Installation

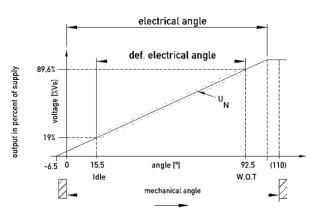
2.1 Terminal diagram



Voltage divider free of load! Wiper current le ≤ 1µA

2.2 Output Signal

output characteristic



low end stop

direction of measurement ccw

high end stop

3. Types

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	Article Code	Resistance	Electrical Angle	Def. electrical Angle	max. Voltage	Connector type	Output connector		
							PIN 1	PIN 2	PIN 3
	SP 4001 101 001 001	1.2 kOhm	101°	77°	16 VDC	Delphi Metri Pack P/N 12162182	GND	supply	signal

4. Installation Instructions:

Mount the sensor in such a way that the blade of the throttle body is solidly engaged by pressing the SP40 parallel down until the o-ring is fully embedded in bore hole (if necessary turn SP40 slightly to assist).

Bring SP40 into reference position . Tighten screws with torque of 2,5 \pm 0,5 Nm.

To ensure proper sealing, presence and correct position of O-ring on the sensor has to be checked before assembly.

After disassembly of the sensor the o-ring must be replaced, otherwise the sealing function can not be guaranteed.

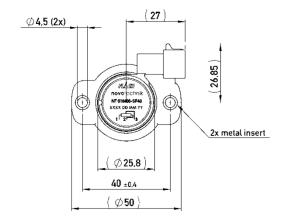
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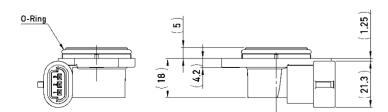
5. Dimensions

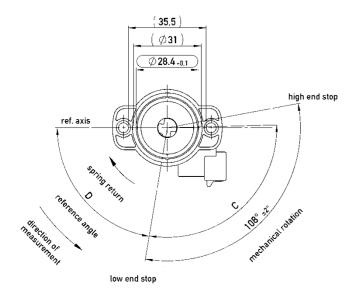


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6. Mounting Interface:

