SUNSTAR传感与控制 http://www.sensoffEC/HNfC&A/E⁴⁹INFORMATION[®]SHEET NCP-180S-6S Pellistor Gas Sensor

General Description

Nemoto Sensor Engineering Co., Ltd. 4-10-9, Takaido-higashi, Suginami-ku, Tokyo, JAPAN The Nemoto NCP-180S-6S is a catalytic (pellistor) type flammable gas sensor supplied as a matched pair of pellistor elements mounted on a single header and protected by a metal enclosure and can.

The sensor detects and measures the presence of flammable gases and vapours in air, in the range 0-100%* of the Lower Explosive Limit (LEL) of the gas or vapour being measured. Designed for use in Fixed Gas Detection Systems, we believe the NCP-180S-6S offers an unparalleled combination of high performance and low-cost.

The NCP-180S-6S exhibits excellent long term zero and sensitivity stability and a high level of resistance to catalytic poisons. The highly automated manufacturing procedure employed by Nemoto results in a repeatable reliable sensor which, unlike similar devices, requires no trimming resistor to enable the detector to be matched with a compensator.



Specifications:

Recommended Voltage: 2.6V +/- 0.1V Current Drawn: 180 +/- 20mA Zero Offset: 0mV +/- 30mV Minimum Signal Sensitivity: 20mV/% CH4/Air Range: 0-100% LEL* Accuracy: +/- 1%LEL(CH4)

Maximum Long Term Drift:

Span: < +/- 1% FSD / month
Zero: <+/- 0.5mV/month

Response Time: T50: <5 sec T90: <10 sec

Temperature Range: -20°C to +60°C

Temperature Drift: (-20°C to +60°C): <+/- 2%LEL Humidity: 0-95%RH, non-condensing

Humidity Response: +/- 2%LEL

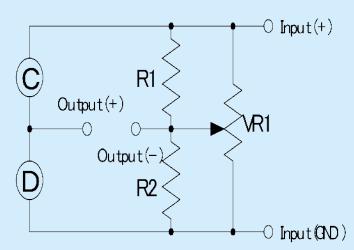
Linearity: Effectively Linear to 100% LEL *

 * A slight deviation from full linearity occurs between 50% LEL and 100% LEL. Full details are available in the full manual for the device.

Test data on drift, poisoning, temperature performance, linearity are available on the Characterisation Document.

Recommended Circuit:

Note: The value R1 is arbitrary, since the function of R1 is to balance the bridge. 1K is suggested.



Nemoto has a policy of continuous development and improvement of its products. As such the specification for the device outlined in the data sheet may be changed without notice

ncp-180s-6s.ppp, issue 1, July 2013

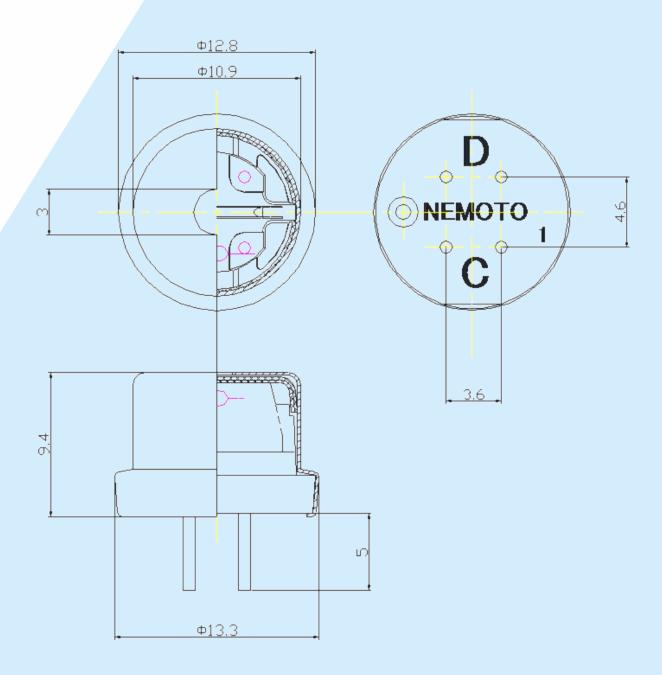
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Dimensions



Test data on drift, poisoning, temperature performance, linearity are available on the Characterisation Document.

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