

## <sup>該与控制 http://www.senso</sup>**TiECHNfC%A7549INFORMATION®SHEET** NCP-180 Pellistor Gas Sensor

## General Description

Nemoto Sensor Engineering Co., Ltd. 4-10-9, Takaido-higashi, Suginami-ku, Tokyo, JAPAN

The Nemoto NCP-180 is a catalytic (pellistor) type flammable gas sensor supplied as a matched pair of elements mounted on TO4 size headers and protected by a metal 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 as a sensing platform for use in fixed flammable gas detection systems, the NCP-180 exhibits excellent long term zero and sensitivity stability and a high level of resistance to catalytic poisons. The device is compatible with a wide range of commercially available Gas Detection Systems and remote flammable gas detection heads.

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:**

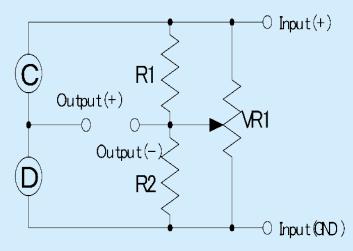
| Recommended Voltage:     |
|--------------------------|
| Current Drawn:           |
| Zero Offset:             |
| Minimum Sensitivity:     |
| Range:                   |
| Accuracy:                |
| Maximum Long Term Drift: |
| Span:                    |

Zero: Response Time: Temperature Range: Temperature Drift (zero): Humidity: Humidity Response: Linearity: 2.6V +/- 0.1V 175 +/- 15mA 0mV +/- 25mV 20mV/% CH4/Air 0-100% LEL +/- 1%LEL(CH4)

< +/- 1% Signal/Month <+/- ½ mV/Month T50: 3 sec T90: 8 sec -20°C to +70°C (-20°C to +70°C): <+/- 5% LEL 0-100%RH, non-condensing +/- 1%LEL Effectively Linear to 100%LEL

## **Recommended Circuit:**

Note: The Function of R1 and R2 are to balance the bridge and so are largely arbitrary, but 200  $\Omega$  is recommended The value of VR1 is recommended to be 3 K $\Omega$ , but may be varied according to the zero calibration window required



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

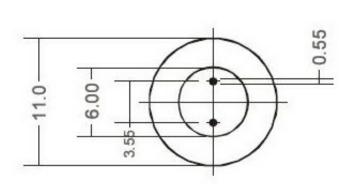
Test data on drift, poisoning, temperature performance, linearity are available on the Characterisation Document.

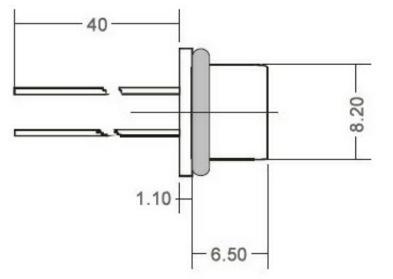
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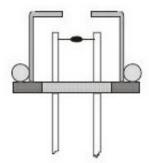
Nemoto (Europe) B.V. Burgemeester Haspelslaan 53, 1181NB Amstelveen (Chrtp://www.sensor-ic.com/\_TEL: 0755-83376489\_FAX:0755-83 The Netherlands TEL: +31 20 670 3858 FAX: +31 20 670 2709 URL: http://www.nemoto.eu



**Dimensions:** 







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