



TECHNICAL INFORMATION SHEET

NCH-180 Explosion Proof Catalytic Flammable (Explosive) Gas Sensor

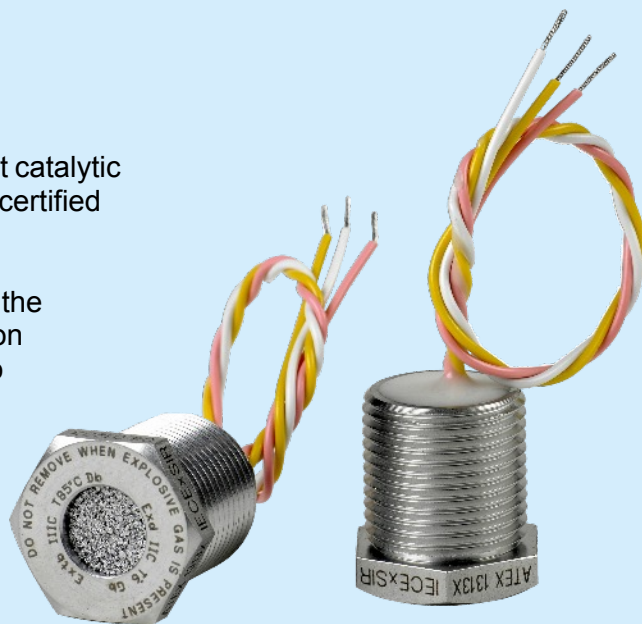
Nemoto Sensor
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JAPAN

General Description

The Nemoto NCH-180 is a new low cost catalytic flammable gas sensor fitted within a certified flameproof enclosure.

Using the popular NAP-56A sensor, the NCH-180 offers excellent detection performance, stability and long life but may also be used in hazardous locations when coupled with a suitable certified flameproof Junction Box.

The NCH-180 is remarkably compact compared with other similar devices, with the sensor contained within the same barrel as the mounting thread, resulting in a very ergonomically elegant design.



Specifications:

Detectable Gas

All Flammable Gases

Approvals:

Exd IIC T4 Gb

Ex tb IIIC T135°C Db IP6X

Note : Alternative temperature ratings are available within the certification of the device. Please contact Nemoto if a different T rating is required.

Certificates:

SIRA 08ATEX1313X
IECExSIR08.0123X

Recommended Voltage:

2.5V +/- 0.2V

Current Drawn:

180 +/- 10mA

Zero Offset:

0mV +/- 35mV

Minimum Sensitivity:

20 mV for 1% CH₄

Range:

0-60% LEL *

Repeatability:

+/- 0.5mV

Maximum Long Term Drift:

Span:

< +/- 8% FSD / Year

Zero:

< +/- 2mV / year

Response Time:

T₉₀: < 30 sec

Temperature Range:

-20°C to +70°C

Humidity:

0-95%RH, non-condensing

Linearity:

Effectively Linear to 60%LEL *

Expected Lifetime

>5 years

* (May be extended to 0-100% LEL with suitable linearity correction)

- **Monitors flammability directly**
- **Unaffected by humidity**
- **Very low long term drift**
- **Poison resistant**
- **Certified Flameproof to ATEX and IEC Standards**
- **Superb temperature stability**
- **Shock Resistant**
- **Effectively Linear to 60% LEL**

Test data on drift, poisoning, temperature performance, linearity are available in the NAP-56A Characterisation Document.

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

nch-180.ppp, issue 2, August 2015

Contact Information:

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Asia Area
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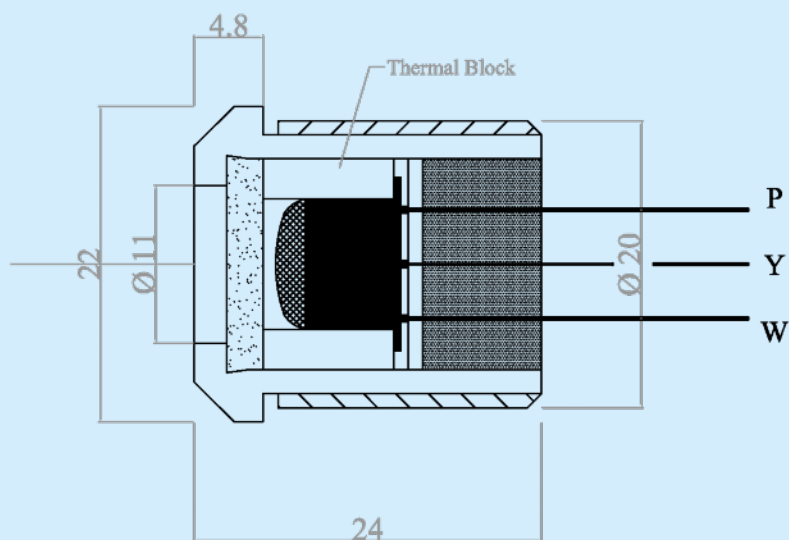
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Dimensions and Construction

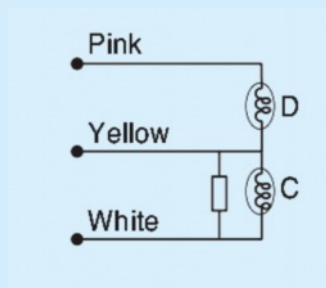


Notes

Material: Stainless Steel
Thread: M20 x 1.5
Dimensions: mm
Tolerance: ± 0.2



Wiring Connections:



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