

H₂ DETECTOR (12V/CAN)

FH2-HY05-GS2

for HYDROGEN LEAK DETECTION

FH2-HY05-GS2 is a hydrogen detector, specifically designed for detecting leaks in hydrogen-powered mobility solutions, such as fuel-cell vehicles (FCVs).

Equipped with a proprietary catalytic combustion-type gas sensor element developed by Nissha FIS specifically for FCV applications, this product offers rapid startup and response performance, along with long-term durability.

In combination with sophisticated electronics and software design, we offer the following features in hydrogen leak detection.

Features

- **Quick Start-Up Time**
- **Rapid Response Speed**
- **Long Life**
- **High Selectivity**

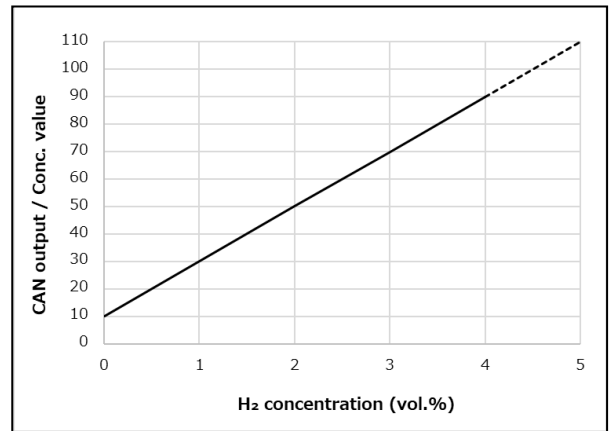


Figure 1: Output characteristics

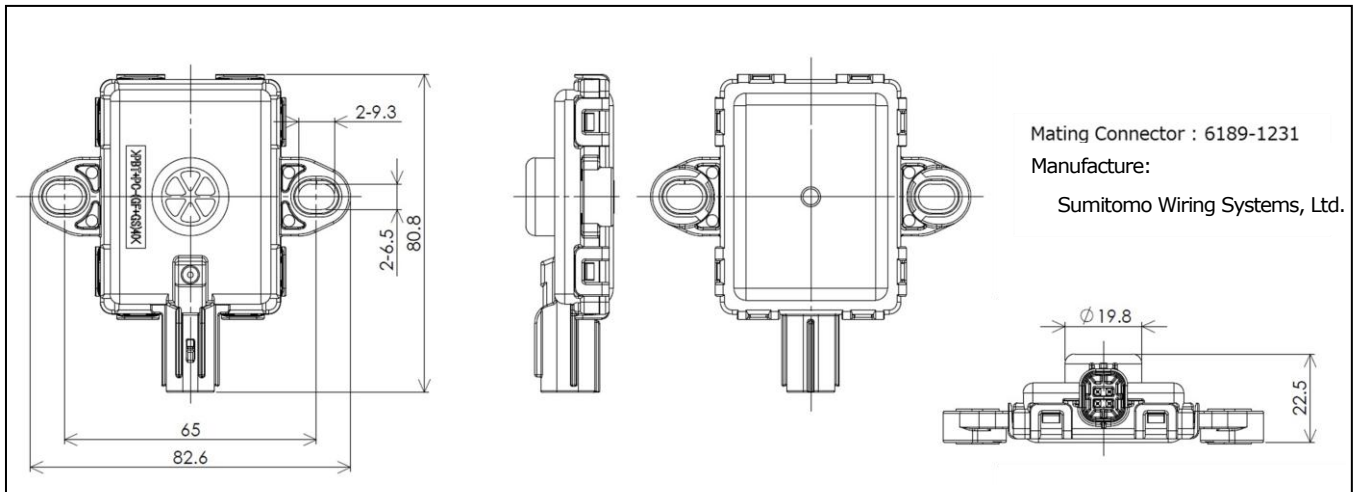
Basic Operation

When a supply voltage (12VDC) is applied, hydrogen gas measurement begins within 1 second, and a PWM signal corresponding to the hydrogen concentration is output. (Figure 1)

Specifications: FH2-HY05-GS2

Item	Specification
Sensing Principle	Catalytic combustion type
Detection Gas	Hydrogen
Concentration Range	0 ~ 4 vol.% in air
Initial Accuracy	± 10 % (above 1 vol.%)
Start-Up Time	≤ 1 second *Concentration output starts after 3 sec.
Speed of Response(T90)	≤ 3 seconds
Supply voltage	12 V (8 V ~ 16 V) DC
Power Consumption	≤ 0.5 W (stable)
Output Signal	CAN (standard format) 、 Baud rate: 500 kbps
Output Interval	100 msec
Operating Temperature & Humidity	-40 °C ~ 105 °C / < 100 %RH (no condensation)
Storage Temperature & Humidity	-40 °C ~ 105 °C / < 100 %RH (no condensation)
IP Class	IP6K7
Dimensions	82.6 (W) × 80.8 (D) × 22.5 (H) mm
Weight	60 g

DIMENSIONS / CONFIGURATIONS



In the interest of continued product improvement, we reserve the right to change design features without prior notice.

Contact :

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