H_2 DETECTOR（24V/CAN）

FH2-HY06-GS2, FH2-HY06-SI2

for HYDROGEN LEAK DETECTION

FH2-HY06-GS2,SI2 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**

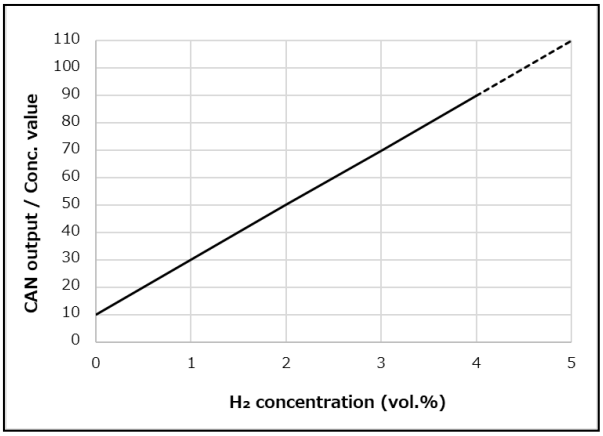


Figure 1: Output characteristics

Basic Operation

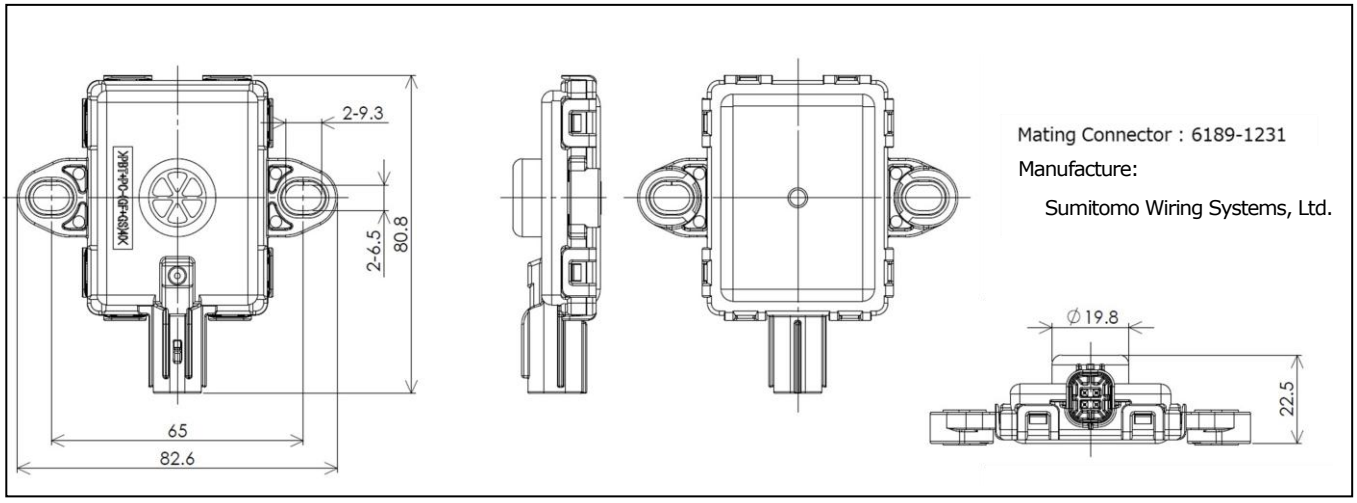
When a supply voltage (12VDC) is applied, hydrogen gas measurement begins within 1 second, and a PWM signal corresponding to the hydrogen concentration is output. (Figure 1)

SPECIFICATIONS

Specifications: FH2-HY06-GS2, FH2-HY06-SI2

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
Speed of Response(T90)	≦ 3 seconds
Supply Voltage	24 V (16 V ～ 32 V) DC
Power Consumption	≦ 0.5 W (stable)
Output Signal	CAN (expanded format) 、 〔 HY06-GS2 〕Baud rate: 250 kbps 〔 HY06-SI2 〕 Baud rate: 500 kbps
Output Interval	100 msec
Operating Temperature & Humidity	-40 ℃ ～ 85 ℃ / < 100 %RH （no condensation）
Storage Temperature & Humidity	-40 ℃ ～ 105 ℃ / < 100 %RH （no condensation）
IP Class	IP6K7
Dimensions	82.6 (W) × 80.8 (D) × 22.5 (H) mm
Weight	60 g

DIMENSIONS / CONFIGURATIONS



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