

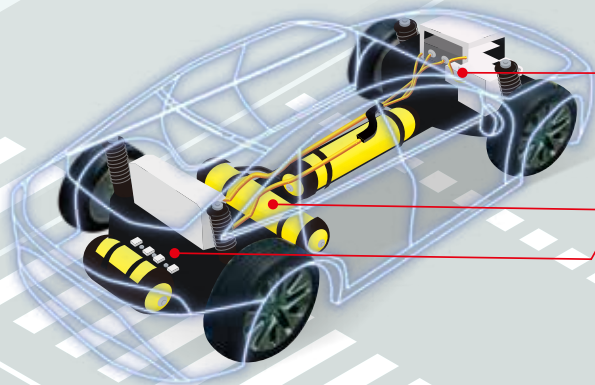
Hydrogen Sensor on the latest TOYOTA MIRAI

Hydrogen and Fuel Cell Vehicles
Global Technical Regulation
(GTR13) requires **prompt detection
and notification of hydrogen leaks.**

Hydrogen detectors monitor on
the safety of fuel cell vehicles.



**FCEV
Hydrogen Detector**
CSD-02/04



Superior **Responsiveness** and **Durability**

Equipped with **our proprietary catalytic
combustion-type sensor** that combines high
response and high durability.
In addition, our finely-tuned mass production
technology enables us to ensure **a stable supply of
gas sensors.**

※Image is for illustrative purposes only.

► Specifications

Model	CSD-02	CSD-04
Sensor Type	Catalytic combustion sensor	
Target Gas	Hydrogen (H ₂)	
Detection Range	0 to 4 vol%	
Output	PWM	CAN
Response Time (T90)	≤ 3 seconds	
Accuracy	± 10%	
Power Supply	9 to 16 VDC	8 to 32 VDC
Operating Temperature and Humidity	-35 to 85°C 0 to 100 %RH No condensation	-40 to 105°C 0 to 100 %RH No condensation
Storage Temperature and Humidity	-40 to 105°C 0 to 100 %RH No condensation	
Ingress Protection	IP67	
Dimensions	W 80 x H25.5 x D 82.4 mm	
Weight	Approx. 62 g	
Certifications	CE/UKCA (RoHS, EMC: EN50498)	



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(AC)202401A200
(PR)Printed in Japan