

# UV/IR Hydrogen Flame detector

## CS-UIE-C20P-H



### Product Overview

CS-UIE-C20P-H is a device that detects the wavelength band emitted from a hydrogen fire. The reliability of fire detection has been greatly improved by using high-sensitivity sensors to minimize malfunctions caused by various non-fire factors.

### Main Features

- Simultaneous detection of hydrogen fires and general fires.
- Passed the fire protection type approval and KICT (Korea Institute of Civil Engineering and Building Technology) test.
- Fast detection within 10 seconds.
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### Electrical Specifications

Operating voltage	19.2Vdc ~ 28.8Vdc
Power consumption	On stand-by : 30mA Alarm : 75mA
Wiring	15 to 24AWG
Electrical Interface	Relay dry contact : NO Fault dry contact : NC

### Output Signals

Relays	Alarm relay (SPST) Fault relay (SPST) 4-20mA RS-485
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### Applications

- Hydrogen production process
- Hydrogen vehicle production process
- Hydrogen related equipment
- Hydrogen station
- Hydrogen tank

### Mechanical Specifications

Enclosure	Stainless Steel (316L) Aluminum (AL6061)
Dimensions	Cylinder 61.5(H)mm x 75(Ø)mm
Weight (Approx.)	Stainless : 3.0kg Aluminum : 0.49kg

## General Specifications

<b>Spectral</b>	UV/IR , H2
<b>Field of View</b>	100°
<b>Detection range</b>	Up to 36m (Heptane)
<b>Response time</b>	Normally 10 seconds
<b>Temperature range</b>	Operating : -40°F ~ 167°F (-40°C ~ 75°C) Storage : -40°F ~ 176°F (-40°C ~ 80°C)
<b>Humidity</b>	Relative humidity of up to 93% ± 2% for the operational temperature range

## Performances

Fire Source (Fuel)	Size	Distance
Heptane	33cm x 33cm	36m
Gasoline	30cm x 30cm	36m
Kerosene	30cm x 30cm	25m
Diesel	30cm x 30cm	25m
Jet-A	30cm x 30cm	25m
H2	Diameter : 12Ø Height : 50cm	15m, 100°