FLAME DETECTOR
Model: FL-3W

FEATURES

❶ Compact size

❷ Wide viewing angle and fast response

❸ Can easily be installed in any location

❹ Sensitive even to clear flames and sparks

❺ Built-in microcontroller continuously analyzes incoming signals to distinguish between actual flame or spark and false signals

DESCRIPTION

Flame detector FL-3W is a safety device that continuously watches over a selected area to detect presence of flame or spark and instantaneously send an alert signal to prevent a major fire accident. It utilizes extremely sensitive UV sensor and state-of-the-art microcontroller with proprietary software to distinguish between real flame and false signals for sources like lamps in its field of view or surrounding area.

This unique flame detector has been installed in various fueling stations, industries flammable material handling areas. It has also been installed in major national projects of government fo Japan.

TYPICAL APPLICATIONS

● Laboratories and testing rooms

● Plastic and gum forming processes

● Welding process safety monitoring

● Flammable material polishing process

● Semiconductor manufacturing process

● Fuel cell battery manufacturing process

● Combustion monitoring of gas burners

● All sorts of plant facilities and storage areas

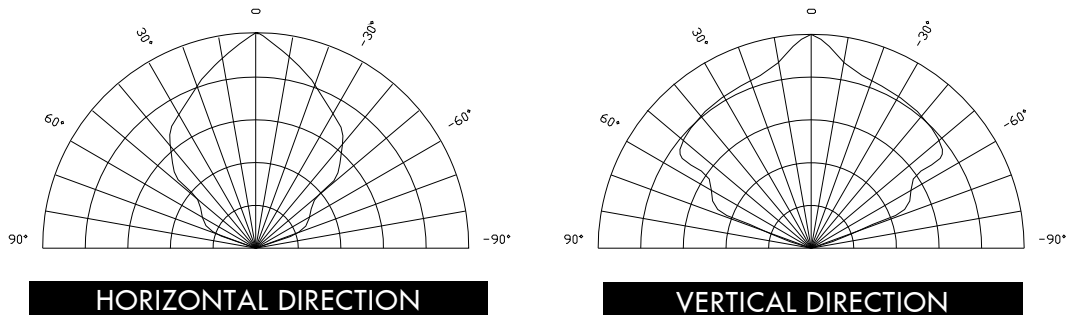Fueling station

Chemical laboratory   Engine laboratory   Semiconductor manufacturing process
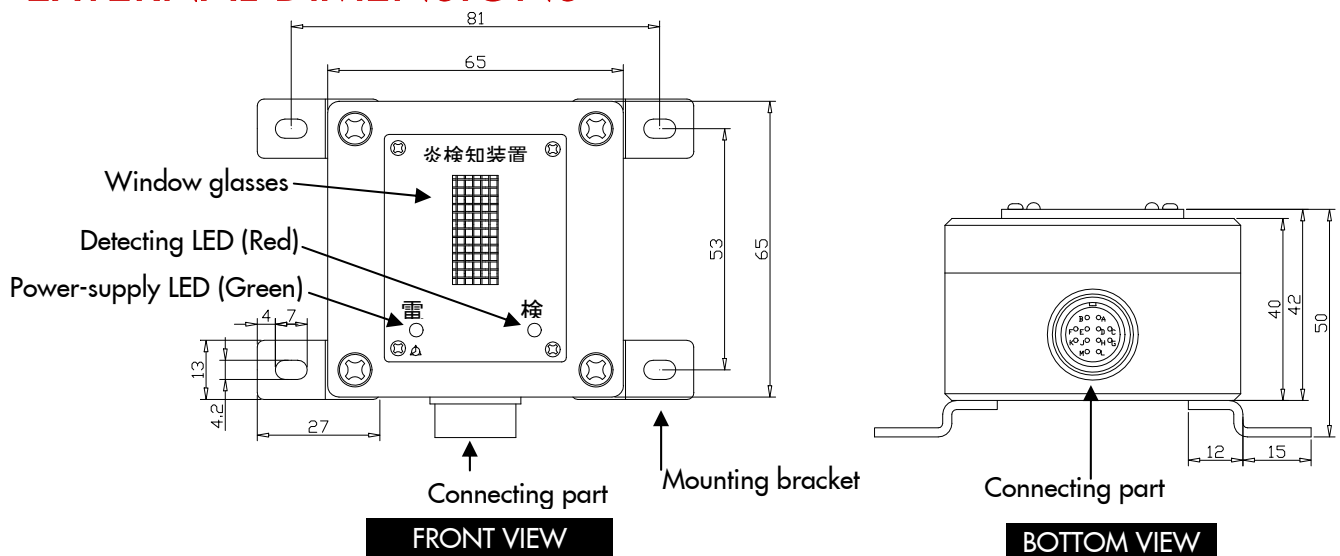
TASHIKA – JAPAN

TECHNICAL SPECIFICATIONS

Detecting range	10 meters (Lighter flame of height 8cm). Detection distance expands if the flame volume is larger, as per sensitivity behavior shown below
Detection angle	140° (both horizontally and vertical direction)
Response time	17.5ms
Detecting output	● Relay contact output (AC 100V, 0.15A/DC60V, 0.5A, fire breakout, accidental fire, and power monitor） ● Open collector output (25DCV, 20mA)
LED indicators	● Power-supply LED (Green) :lights up in power-on condition ● Alert LED (Red): lights up on detecting flame
Ambient temperature	-10°C~ 50°C (non-condensation atmosphere)
Electric fuse	Chip fuse
Power supply	12V to 24 VDC (Consumption current 0.1A)
External dimensions	W 65mm X D 65mm X H 43mm (Excluding projection portion)
Finishing coating color	Electro-statically painted，color：5 Y 7.5/1
Weight	Approx. 300 grams
Accessory	Connecting cable (3m)

DIRECTIONAL SENSITIVITY BEHAVIOR

HORIZONTAL DIRECTION

VERTICAL DIRECTION

EXTERNAL DIMENSIONS

Window glasses

Detecting LED (Red)

Power-supply LED (Green)

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Connecting part

Mounting bracket

FRONT VIEW

Connecting part

BOTTOM VIEW

DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS
ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE