TAKEX PULNiX

FLAME SENSOR
FS-5000E (DC 12V)

HIGH SENSITIVITY FOR OUTDOOR USE

FLAMES DO NOT WAIT ! FS-5000E DETECTS "FLAME" BEFORE IT GROWS INTO "FIRE".

DETECTS SMALL FLAMES IMMEDIATELY ! AN EPOCHAL ULTRAVIOLET RAY DETECTION FLAME SENSOR THAT CAN BE USED OUTDOORS.

GENERAL DESCRIPTION

Flame sensor FS-5000E immediately detects ultraviolet rays contained in flames and activates an external output.

The weather proof construction of the housing allows for use outdoors. It can be widely used for fire prevention in areas where fire is prohibited.

8 SELECTABLE SENSITIVITY LEVELS

* 2 sensitivity settings H & L
* 4 detection timer settings : 1 sec., 6 sec., 15 sec., 30 sec. reduce possibility of false alarms.

The set up can be selected from the 8 levels according to the environment of the installation.

Area masking enables elimination of unnecessary detection areas.

A WHITE BODY THAT MATCHES ANYWHERE

The aesthetically pleasing white housing blends well with most surroundings. The unique ball lock mechanism allows adjustment of the detection area after installation.

CONVENIENT FUNCTIONS

● Alarm memory function

The memory indication function enables identification of individual sensors in multiple sensor on figuration.

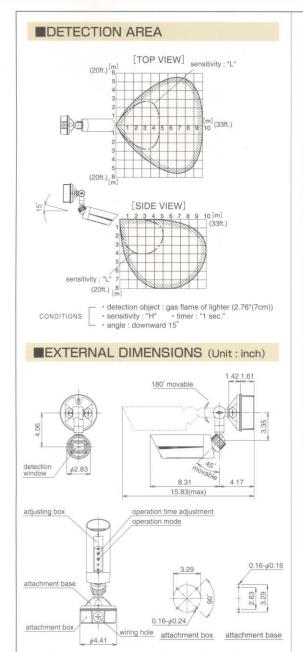After raising an alarm, the memory indication LED blinks for 3 minutes and then lights for 47 minutes.

● Day/night time discernment function

By adjusting the operation mode control switch, the output operation can be controlled according to the ambient light level.

Selectable for night time only. (5 lux - ∞ lux)

● Output time set up

The time of detection output operation can be adjusted by a switch [off delay selectable approx. 2 sec. - 1 min. or approx. 5 sec. - 10 min.]

FLAME SENSOR

■DETECTION AREA

[TOP VIEW] sensitivity ; "L"

[SIDE VIEW]

sensitivity ; "L"

CONDITIONS
- detection object : gas flame of lighter (2.76"(7cm))
- sensitivity : "H" • timer : "1 sec."
- angle : downward 15°

■EXTERNAL DIMENSIONS (Unit : inch)

180° movable

detection window φ2.83

45° movable

8.31   4.17
15.83(max)

adjusting box
operation time adjustment
operation mode
attachment base
attachment box
wiring hole   attachment box   attachment base
φ4.41

3.29
90°
0.16-φ0.24
0.16-φ0.16
2.63
3.29

■SPECIFICATIONS

Product name		Flame sensor
Model no.		FS-5000E
Detection system		Ultraviolet rays detection (Detected wave length <85 to 260nm>)
Detection area	Distance	33ft. (10m) [2.76"(7cm) flame]
	Angle	Vertical : approx. 75° (upward : 15°)
		Horizontal : approx. 100° (downward : 60°)
	Adjustment range	Vertical : downward 90° (horizontal - vertical)
		Horizontal : 180°
Sensitivity adjustment	Sensitivity	H(100%), L(50%) [selectable by switch]
	Detection timer	1sec., 6sec., 15sec., 30sec. [selectable by switch]
Power supply		DC10V - 30V (non-polarity)
Power consumption		35mA or less
Alarm output		◎Dry contact relay Form C (alarm : open/close)
		Contact capacity : 30V (AC/DC) 0.5A or less (resistance load)
		Operation time : The following are selectable
		● Detection time + off delay operation approx. 2sec. - 1min.——[adjustment
		● Detection time + off delay operation approx. 5sec. - 10min.——[volume
		Output operation : The following are selectable
		● Same time as above continuous output
		● Same time as above flashing output
		Operation mode (day/night time discernment function) : 5lux (night time operation) - ∞lux (day time operation) [adjustment volume]
Alarm memory		The memory indication LED blinks for 3 minutes and then lights for 47 minutes and automatically resets.
LED		◎Operation LED (red) : synchronous dry contact relay
		◎Memory indication LED (yellow) : blinks for 3 minutes and then lights
Wiring		Reed wiring
		Power supply (thin) : 2 / dry contact (thin) : 3
Ambient temp. range		-4°F to +122°F (-20°C to +50°C)
Installation		Indoor, Outdoor
Weight		approx. 19.3 oz (550g)
Appearance		Sensor part : PC resin (white)
		Adjustment, attachment part : AES resin (white)
Accessories		● Tapping screw : 1 type φ6×30(SUS) 4
		● Tapping screw : 2 types φ4×8 1
		● Band : 1
		● Area mask seal : 1
Optional		Pole attachment (for the end) : BP-01
		Pole attachment (for the middle) : BP-02
		Vise :BP-03

WARNING !

This product may detect other ultraviolet rays other than flames due to the high sensitivity of ultraviolet ray detection. Read the instruction mannual before installation and follow the proper usage.

● Do not instal near railways. The sparks from the pantograph may cause false detection.

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● Do not instal near high voltage power lines. The sparks from the pylon may cause false detection.

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● Do not instal near weld construction sites. The sparks may cause false detection.

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