



AMTEC

FIRE PROTECTION & FIRE DETECTION SENSOR

FIRE SENSOR FOR CONTROL PANEL, SWITCHBOARD

MODEL : SKH089



The main causes of plant fires are sparks and overcurrents generated from high-current switchgear inside the switchboards or control panels installed in the plant.

If you can detect the occurrence of a fire and extinguish it as soon as possible, it will be possible to minimize the loss of your own assets. Our sensors are developed as dedicated sensor focusing on the switchboard and control panel.

EASY TO ATTACHE

It can be installed on the DIN rail.

COMPACT & LIGHTWEIGHT

Compact body: W35.8mm×L89.6mm×H58.0mm

Lightweight: 80g

RELAY OUTPUT (C CONTACT)

It has relay output contact for easy handling. The output can be directly driven to the device or directly connected to the I/O port of sequencer.

EXTENSIVE WORKING VOLTAGE

It can be used in the range of DC12V to 30V.

If use SKH089PW, it can be use in the range of AC100V~AC200V.

SENSOR OUTPUT MIXER W/ POWER SUPPLY

MODEL : SKH089PW



SKH089PW combines NITTAN photoelectric smoke detector (MODEL:OKB-3) and ANTECH flame sensor for switchboard and control panel (MODEL:SKH089), and is developed for early detection of ignition in all respects.

EXPLOSION-PROOF TYPE FLAME DETECTION SENSOR

MODEL : SKH 1050



This is a explosion-proof type flame sensor that can be used even in environments where flammable gases are generated, such as in chemical plants.

- It can detect hydrogen flames that are difficult to visually check.
- As this product is explosion-proof type, it can be installed in the presence of explosive gases.

ORDER PRODUCTION

(APPLICATION)

- HYDROGEN STATION
- FUEL BATTERY FACTORY
- VEHICLE LABO
- HYDROGEN MANUFACTURING PLANT
- RECHARGEABLE BATTERY FACTORY
- OIL, GAS MANUFACTURING PLANT etc.

SPECIFICATION

PRODUCT NAME	FIRE SENSOR FOR CONTROL PANEL, SWITCHBOARD	SENSOR OUTPUT MIXER W/ POWER SUPPLY	EXPLOSION-PROOF TYPE FLAME DETECTION SENSOR
MODEL	SKH089	SKH089PW	SKH-1050
DETECTION METHOD	UV detection(Wavelength 185nm~260nm)	—	UV detection(Wavelength 185nm~260nm)
DETECTION CAPACITY	About 2cm of flame / From 5m away	—	About 4cm of flame / From 10m away
DETECTION ANGLE	Detect the reflected light in the panel	—	Approx.60° (±30°from the front of the sensor)
DETECTION TIME	0.5、1、2、4、8、16sec (6range)	—	0.5、1、2、3、4、5、6、7sec (8range)
POWER SUPPLY VOLTAGE	DC12V~DC30V	AC85V~AC240V	12V DC~24V DC
CONSUMPTION CURRENT	STANDBY:20mA AT DETECTION:50mA	STANDBY:20mA AT DETECTION:50mA	LESS THAN30mA
ALARM OUTPUT (WIRED)	1c RELAY CONTACT (AC125V-0.5A DC24V-1A)	OUTPUT VOLTAGE : : DC12V OUTPUT CURRENT : 300mA (Up to 3units of OKB-3 can be connected) CONNECTED DEVISE : : FLAME SENSOR SKH089(ANTECH) SMOKE DETECTOR : OKB-3 (NITTAN) OUTPUT SYSTEM:AND or ALONE OUTPUT METHOD:RELAY CONTACT	1c RELAY CONTACT (AC125V-0.3A DC30V-1A)
ALARM ACTIVATION DISPLAY	ALARM ACTIVATION DISPLAY	WHEN OKB-3 OPERATING RED LED WILL TURN	STANDBY:GREEN LED LIGHT/ AT DETECTION:RED LED LIGHT
OPERATING TEMPERATURE RANGE	-10℃~+60℃ (NO CONDENSATION OR FREEZING)		-20℃ ~ +50℃
SIZE	W 35mm×D 90mm×H 58mm	W 35.8mm×D 89.6mm×H 58.0mm	DIAMETER:82mm×DEPTH105mm (NOT INCLUDING PROTRUSION)
WEIGHT	80g	110g	Approx. 1.6kg
CASE MATERIAL	ABS (WHITE)		ALMINIUM DIE-CAST

FLAME SENSOR FOR HEAVY MACHINERY

MODEL : SKH086



MODEL : SKH086EEP(w/o WIRELESS UNIT)



ALARM RADIO

Flame sensor can detect fire from heavy machinery and waste at an early stage under severe environment such as dust and high temperature and prevent accident beforehand.



▼USE EXAMPLE AT INDUSTRIAL WASTE DISPOSAL SITE.

Attach the sensor to the hydraulic shovel arm. It is effective to detect fire from nearby waste while the shovel is out of work.



▲TO PREVENT ENGINE FIRE CAUSED BY DUST.

If the engine room of heavy equipment fires, it detects the UV rays of the flame immediately and warns the operator with an alarm.



FIRE SENSOR SKH086×4

SPACER

FLAME SENSOR FOR CAR

MODEL : SKH075



With the growing importance of trucks in transport, fire accidents during trucking are continuously occurred.

Early detection of fire is important to ensure the safety of important cargo and drivers. Even while the truck is moving, the model SKH-075 reliably senses fire.

- By using UV detection method, there is no malfunction due to heat.
- It can be retrofit. (Adapt to 12V/24V car.)

SPECIFICATION

PRODUCT NAME	FLAME SENSOR FOR HEAVY MACHINERY	FLAME MONITORING SENSOR FOR CAR	WIRELESS INDICATOR UNIT
MODEL	SKH086 (SKH086EEP)	SKH075	SKH086R2
DETECTION METHOD	UV detection (Wavelength 185nm~260nm)		
DETECTION CAPACITY	About 2cm of flame can be detected from 5m away.		
DETECTION ANGLE	Left right 90° / Up down 30°	Left right 90° / Up down 90°	—
DETECTION TIME	0.5, 4, 8, 12sec (4range)	0.5, 1, 2, 4, 8, 16sec (6range)	—
POWER SUPPLY VOLTAGE	DC12V~DC24V (Built-in reverse connection prevention circuit)	DC12V·24V	DC12V·24V
CONSUMPTION CURRENT	STANDBY:20mA AT DETECTION:50mA(DC12V SUPPLYING)	STANDBY:20mA AT DETECTION:50mA	MAX80mA
ALARM OUTPUT (WIRED)	RELAY CONTACT	—	—
ALARM INPUT (WIRELESS)	—	—	315MHz WEAK ELECTRIC WAVE (ID RECOGNITION)
ALARM OUTPUT (WIRELESS)	315MHz BAND SPECIFIED LOW POWER RADIO MODULE (ID RECOGNITION)	315MHz BAND SPECIFIED LOW POWER RADIO MODULE (ID RECOGNITION)	315MHz SPECIFIED LOW POWER RADIO MODULE (ID RECOGNITION)
ALARM ACTIVATION DISPLAY	—	—	4pcs RED LED LIGHT BLINKS: BUZZER NOTIFICATION(80db)
OPERATING TEMPERATURE RANGE	10℃~100℃ (MAX. RATING115℃)	-10℃~+60℃ (NO CONDENSATION OR FREEZING)	
SIZE	W53mm×D84mm×H26mm (NOT INCLUDING MOUNTING PLATE & PROTRUSION)	W130×D90×H20mm (NOT INCLUDING PROTRUSION)	W110×D110×H28mm (NOT INCLUDING PROTRUSION)
WEIGHT	350g(NOT INCLUDING CABLE)	250 g	550 g(NOT INCLUDING CABLE)

[NEW] STANDARD TYPE FLAME SENSOR(UV DETECTION METHOD)

MODEL : SKH047M



It is a standard UV detection type flame sensor that further evolved SKH047 type.

IT CAN BE USED OUTDOORS.

ANTECH " flame sensor" can instantly detect the UV light of the lighter and match flames that the accomplicer put on for arson.

Other UV sensors are not suitable for outdoor use because they are affected by sunlight.

However, our UV sensor can be used outdoors with our unique solar separation technology.

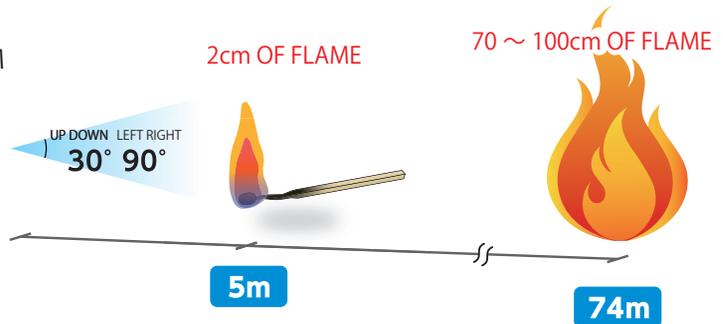
OUTSTANDING DETECTION PERFORMANCE

MODEL : SKH047MSD



(SKH047M Noise suppression product)

SKH047M



DUST-PROOF & WATER-PROOF (IP64)

It can be installed outdoors.

HIGHLY SENSITIVE FLAME DETECTION

It can detect UV rays emitted by a flame of about 2 cm from 5m away.

If it is a flame of 1m, it can detect from 70m away.

WORLD'S SMALLEST

The world's smallest UV-type flame sensor.

VARIOUS OUTPUT FUNCTION

As it support relay contact and open collector output, it can be directly driven to the alarm buzzer, rotating light and Sspeech synthesis unit etc.It can be connected to other company's notification devices.

DETECTION TIMER

To change setting time of detection timer,SKH047 type is changed by shorting the electronic circuit pattern,but SKH047M type can be easily changed with the DIP switch.

(You must turn off the power to activate the setting change.)

MOUNTING STAND IS INCLUDED AS DEFAULT

A dedicated mounting stand is included as standard for quick installation.If you don't need the mounting stand,you can install it in the same way as the model SKH047.

SPECIFICATION

PRODUCT NAME	STANDARD TYPE FLAME SENSOR (UV DETECTION METHOD)
MODEL	SKH047M
DETECTION METHOD	UV DETECTION METHOD (Wavelength 185~260nm)
DETECTION CAPACITY	About 2 cm of flame / from 5m away
DETECTION ANGLE	Left right 120° / Up down 120°
DETECTION TIMER	0.5, 1, 2, 4, 8, 16sec(6range)
POWER SUPPLY VOLTAGE	DC7~24V
CONSUMPTION CURRENT	STANDBY:20mA AT DETECTION:50mA
ALARM OUTPUT (WIRED)	1C RELAY CONTACT(AC125V-0.5A DC24V-1A) OPEN COLLECTOR(When operating continues "ON" for 30sec)
ALARM OUTPUT (WIRELESS)	—
OPERATING TEMPERATURE RANGE	When operating continues "ON" for 30sec)
OPERATING TEMPERATURE RANGE	-10~+60°C (NO CONDENSATION OR FREEZING)
SIZE	DIAMETER68×H25 [mm] (35mm :Including pedestal)
WEIGHT	90 g
CASE MATERIAL	ABS (WHITE)

WHY IS THE UV DETECTION METHOD EFFECTIVE?

The top of fire cause is arson by any means.It is the best way to detect arson earlier that sensors are installed outdoors.However,generally heat or smoke

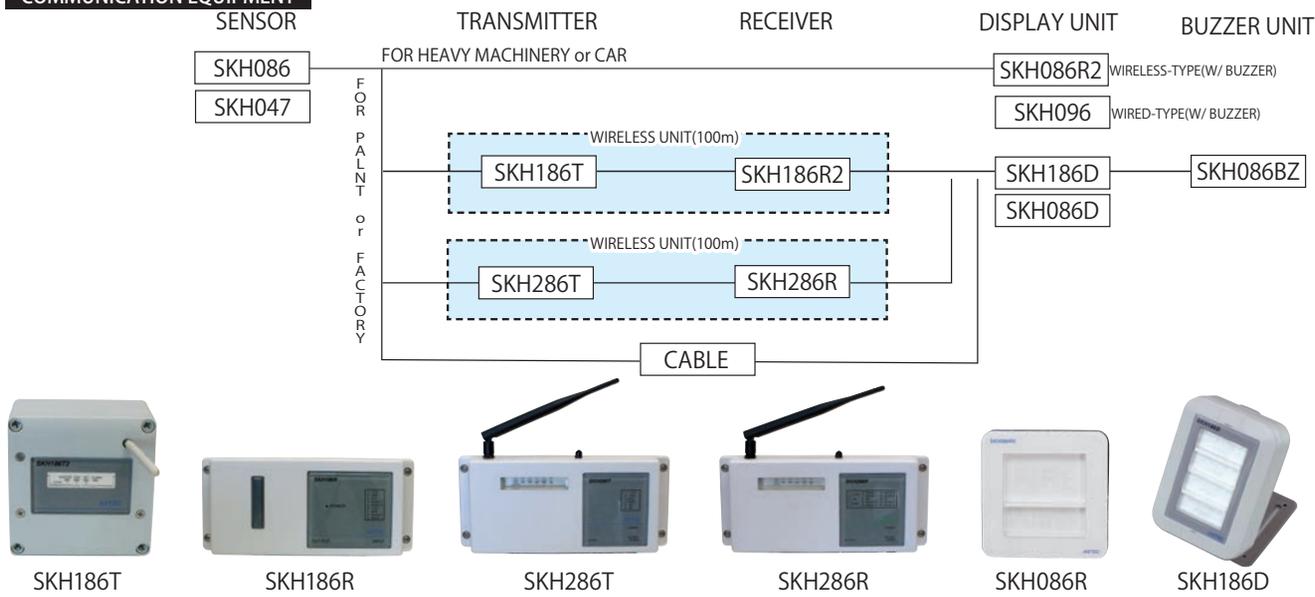
detection type is not so effective.To detect fire outdoors,it is only way to detect UV wavelength emitted from flame.A product developed for this purpose is called a flame detection sensor.Flame sensors are roughly divided into two types of using infrared rays and using UV rays.

Because infrared radiation is emitted from all objects which has temperature, it is difficult to separate flames and others,As the structure is complicated, the price is also expensive.

In comparison to infrared, UV is contained only in the sunlight and flame in the natural environment.If we can separate the sunlight and flames, it is possible to make a highly sensitive flame sensor.

Despite its simple structure and low cost compared to infrared sensors, it has extremely fast response and good sensitivity.

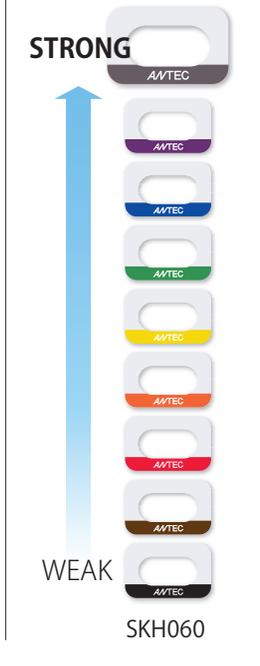
COMMUNICATION EQUIPMENT



OPTION



ATTENUATION FILTER



SPECIFICATION

PRODUCT NAME	SKHseries wireless transmitter(100m)	SKH series wire receiver (100m)	SKH series Wireless transmitter (1km)	SKH series wireless receiver (1km)
Model	SKH186T2	SKH186R	SKH286T	SKH286R
Input Standard	MIC-6R connector	—	MIC-6R connector	—
Radios	Specific low power radio	Specific low power radio	Conform IEE802.15.4g Conform ARIB STD-T108	Conform IEE802.15.4g Conform ARIB STD-T108
Radio Output	Max 10mW	Max 10mW	Max 20mW SKH286T side can adjust its output.	Max 20mW SKH286T side can adjust its output.
Used frequency	429.2500-7375MHz	429.2500-7375MHz	922.3~928.1MHz	922.3~928.1MHz
Channels	16channels	16channels	28channels Occupied bandwidth 400kHz(2channels)	28channels Occupied bandwidth 400kHz(2channels)
Number of connections	1	can receive datas of Max 4 SKH186T2	1 (normal) Max 8 (options)	it can receive the datas up to Max 8 devises
Output standard	—	D sub SP connector (individual output)	—	D sub SP connector (individual output)
Power supply. Voltage	AC100V 50/60Hz	AC100V 50/60Hz	AC100V 50/60Hz	AC100V 50/60Hz
Current consumption	200mA	200mA	200mA	200mA
SIZE	W125mm×D125mm×H75mm	W250mm×D110mm×H45mm	W250mm×D110mm×H45mm	H250mm×D110mm×H45mm
CASE MATERIAL	ABS	ABS	ABS	ABS

INTEGRATED FLAME SENSOR

MODEL : SKH072 / SKH072CA
(w/ Camera)



INTEGRATED FALME SENSOR MAINLY INSTALLED OUTDOORS. WHEN THE FLAME IS DETECTED, THE ROTATING LIGHT WILL TURN ON FOR A CERTAIN PERIOD OF TIME, AND NOTIFY THE FIRE.

It detects ignition of waste paper,lumber waste, waste tires that areeasy to cause industrial waste fires and fires.

It has high reaction sensitivity,and it can detect the flame at the moment when arson put on a lighter..



It is perfect for monitoring arson in a garbage yard of apartment. It can be added E-mail notification,transfer images, alarm function.

SENSOR FOR SIGNBOARD:Arrester

MODEL



◀ EXTERNAL SPEAKER



▶ ROTATING LIGHT

By incorporating a voice synthesis unit andattaching an external speaker, it can sendingan announcement, directly drive an alarmbuzzer, a rotating light, and other devices,when a flame is detected.

SPECIFICATION

PRODUCT NAME	Integrated arson detecting sensor	arson/fire detecting sensor
MODEL	SKH072 / SKH072CA	SKH076
DETECTION METHOD	UV detection(Wavelength 185nm~260nm)	
DETECTION CAPACITY	About 2 cm of flame / from 5m away	About 1 m of flame / from 50m away
DETECTION ANGLE	Left right 120° / Up down 120°	Left right•Up down 100° (MAX)
DETECTION TIMER	0.5, 1, 2, 4, 8, 16sec (6range)	
POWER SUPPLY VOLTAGE	AC100V-240V 50/60Hz	AC100V-240V 50/60Hz
CONSUMPTION CURRENT	0.5W (MAX)	0.6W (MAX)
ALARM OUTPUT (WIRED)	1c relay contact (AC125V-0.5A DC 24V-1A) Open collector (activates for 30 sec when detected)	Speaker for external output 1 revolving light for external output 2 (DC24V 1A (MAX)) Output 3 is for relay connection output (AC250V 5 A)(DC30V 5A)
OPERATING TEMPATATURE RANGE	revolving light (orange), buzzer	—
OPERATING TEMPATATURE RANGE	-10~+60°C (NO CONDENSATION OR FREEZING)	
SIZE	W200mm×H350mm×D132mm (NOT INCLUDING PROTRUSION)	W220mm×D110mm×H45mm
MATERIALS	aluminum box, ABS for controlling parts.	controlling parts is aluminum, sensor parts is ABS (Black)
REMARK	A has a camera	—

FLAME SENSOR WITH BUILT-IN FLASHLIGHT FOR MISCHIEF PREVENTION (CEILING MOUNTING)

MODEL : SKH087



BUILT-IN SPEAKER AND FLASHLIGHT
 When a flame is detected, the flash light blinks and a voice is emitted to prohibit the use of firearms by synthetic voice.
 It is assumed that this product will be installed side by side in the toilet etc.
 In addition, it has a function to adjust the detection angle in order to reliably detect the flame that occurs in the private room of the toilet.
 When the sensor detect a flame, the red light in the center of the sensor blinks, and announce with synthetic voice that the firearm can not be used, which is effective in preventing mischief.
 The front panel blinks red to show at a glance which sensor has responded, and this blinking will be maintained for 30 seconds after the flame is no longer detected.



DOWNLIGHT TYPE FLAME SENSOR (CEILING MOUNTING)

MODEL : SKH084



SKH084 is a simple model of SKH087, which is specialized for flame detection.
 Same as SKH087, it has adjusting detection angle function, but doesn't have notification function.
 It has the same shape as the downlight, so there is no sense of discomfort even if attached to the ceiling.
 The front panel flashes red when a flame is detected, so you can see at a glance that the sensor has been activated.
 Operation specification is same as SKH047M

SPECIFICATION

PRODUCT NAME	fire UV detector (Speaker/Flash light mounted in)	Downlight version
MODEL	SKH087	SKH084
DETECTION METHOD	UV detection(Wavelength 185nm~260nm)	
DETECTION CAPACITY	About 2 cm of flame / from 5m away	About 2 cm of flame / from 5m away
DETECTION ANGLE	detecting angle is adjustable (41~76°)	detecting angle is adjustable (41~76°)
DETECTION TIMER	1, 2, 4, 8, 16sec (5range)	
POWER SUPPLY VOLTAGE	AC100 V 50/60Hz	DC7V~DC24V
CONSUMPTION CURRENT	Max/ 16W at waiting/ below 1W	20mA at waiting, detected 50mA
ALARM OUTPUT	inform with voice message (2 kinds)	1c relay connection(AC125V~0.5A DC24V~1A)
OPERATING TEMPERATURE RANGE	red light blinks	red light blinks on front panel
OPERATING TEMPERATURE RANGE	—	
SIZE	diameter 146mm H125mm(NOT INCLUDING PROTRUSION)	diameter90mm H165mm control BOX H60×W40×D60mm(without terminal block)
WEIGHT	about 540g	250g
MATERIALS	ABS(WHITE)	aluminum dicastaluminum
REMARK	Voice output 0.25W(volume setting is optional) Flashlight (xenon method)	—

SPEAKER TYPE FLAME SENSOR

MODEL : SKH073



Image installing to ceiling

This sensor is built into the ceiling embedded speaker. There is no sense of incongruity and it does not look like a sensor. When a flame is detected, the speaker announces that the use of firearms is prohibited. It is best installed in places where there are flammable products in the event of a fire, such as public toilets, department store toilets, and bedding departments. Naturally, it can also be used as an ordinary speaker. Only this model can modify the speaker currently used.

FLAME SENSOR FOR TABLE WITH PARASOL ON OPEN

MODEL : SKH092



SKH092 is a flame sensor aimed at early detection of smoking or arson near a table with a parasol on an open terrace.

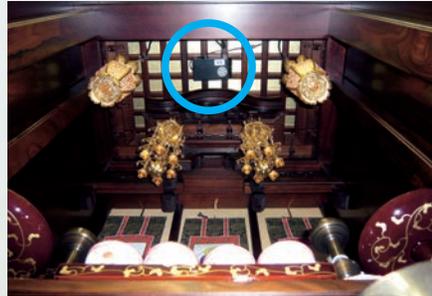


SPECIFICATION

PRODUCT NAME	Fire sensor with speaker	fire sensors mounted on deck umrellas for open terrace	receiver for SKH092
MODEL	SKH073	SKH092	SKH092R
DETECTION METHOD	UV detection(Wavelength 185nm-260nm)		—
DETECTION CAPACITY	About 2 cm of flame can be detected from 5m away.		—
DETECTION ANGLE	Left right 120° / Up down 120°	Left right 120° / Up down 120°	—
DETECTION TIME	0.5, 1, 2, 4, 8, 16sec (6range)	0.5sec and can adjust between 1-31sec. (when shipped setting is 1 sec)	—
POWER SUPPLY	AC100V-240V 50/60Hz	sensor part DC12V transmitter DC3V (Supplied from SKH092BT) Supplied from metal connector (6P)	AC100V 50/60Hz
POWER CONSUMPTION	0.2W (MAX)	monitoring 20mA detected 80mA	
DISPLAY		Blue LED	
ALARM OUTPUT	inform with voice message (2 types)	"(Wireless) 315 MHz range Specific low power radio"	Voltage output DC24V 150W relay output AC250V -5A, DC30V -5A
ALARM INPUT			(Wireless) range of 315MHz
OPERATION TEMPERATURE RANGE			
SIZE	diameter180mm×H130mm (NOT INCLUDING PROTRUSION)	W75mm×D95mm×H25mm	W240mm×D160mm×H91mm
CASE MATERIAL		Polycarbonate	ABS
OTHER	Speaker: TOA PC-1837/ YS-270 installation: Φ150mm	power on/off switch	for external putput has abnormal detection, and it can be reset by reset switch. SKH092 can connect max 8 devises (ID setting)

FLAME SENSOR FOR BUDDIST

MODEL : SKH059AC



Fix the sensor to the ceiling of the alter and plug the AC adapter into the outlet.

If install it to the blind spot of inside of the altar, you will not spoil the beauty appearance.

It can be control ON or OFF by switch.

It doesn't react to flame of candle and incense, but if it burns other object, it make a notice by buzzer.

OUTLET TYPE FLAME SENSOR

MODEL : SKH049



Since a general fire alarm is a system that detects heat and smoke generated by burning something, so the mounting position is limited to the ceiling.

The UV detection flame sensor directly detects the UV radiation emitted from the flame, so it is not necessary to place it on the ceiling.

It can be installed to anywhere can see flame, and it is designed only need to plug the into outlet.

When a flame is detected, the built-in buzzer will notify you.

It is using full panel design (designed by KAZUMASA UCHIO) as default, but you can change to the design which you like.

Also can print your company name as advertising.

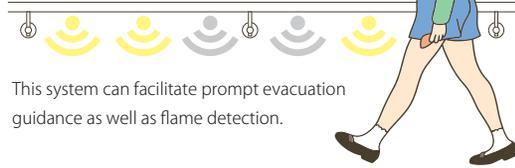
SPECIFICATION

PRODUCT NAME	FLAME SENSOR FOR BUDDIST ALTER	OUTLET TYPE FLAME SENSOR
MODEL	SNS059-AC	SKH049
DETECTION METHOD	UV detection(Wavelength 185nm-260nm)	
DETECTION CAPACITY	About 2 cm of flame can be detected from 20cm away.	About 2 cm of flame can be detected from 5m away.
DETECTION ANGLE	Left right 120° / Up down 120°	
DETECTION TIME	4sec(FIXED)	0.5, 1, 2, 4, 8, 16sec(6range)Changed by DIP switch on back
POWER SUPPLY	AC100V 50/60Hz	AC100V 50/60Hz
POWER CONSUMPTION		
ALARM	Buzzer sound	
ALARM ACTIVATION DISPLAY	—	
OPERATION TEMPERATURE RANGE	-10~+60°C (No condensation or breezing)	
SIZE	W95mm×D58mm×H18mm	W55mm×D80mm×H20mm
WEIGHT	150g	200g
CASE MATERIAL	ABS	ABS
OTHER	Buzzer sound volume about 80dB	Buzzer sound volume about 75dB

EXTERNAL PRODUCTS

NAKA CORPORATION ORIGINAL PRODUCT CROWD INDUCTION SYSTEM w/ FLAME SENSOR (SMART GUIDE)

Make a flow with LED flashing and visually guide person to evacuation routes.

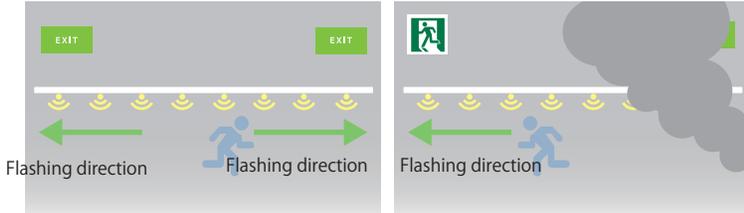


This system can facilitate prompt evacuation guidance as well as flame detection.

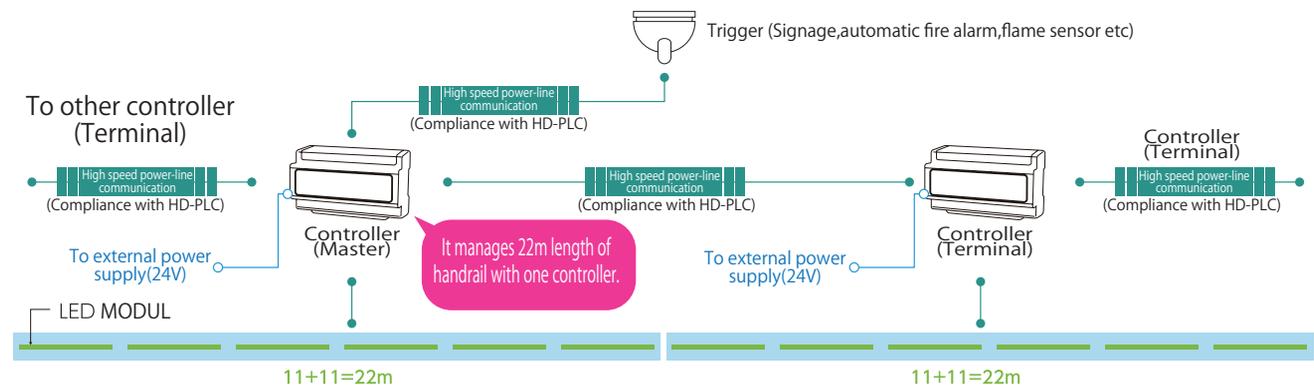
ALL DIRECTION TYPE
FLAME SENSOR
(Built-in HD-PLC communication function)
TZ834



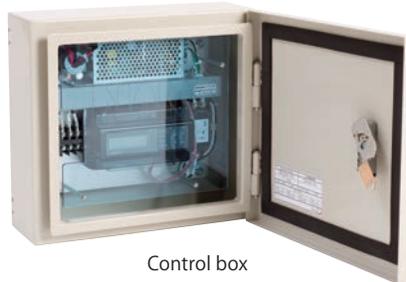
Modifies the direction and speed of flashing as needed to guide people smartly.



Check the actual movement from here →
(Link to NAKA Corporation)



Controller TZ836



Control box



LED

SPECIFICATION

PRODUCT NAME	FLAME SENSOR FOR SMART GUIDE	CONTROLLER FOR SMART GUIDE	LED MODULE FOR SMART GUIDE
MODEL	TZ834	TZ836	LM-NKHS2045A-2075A-2105A-2135A
DETECTION METHOD	UV detection (Wavelength 185nm~260nm)	—	Light source 2700K (Lamp color)
DETECTION CAPACITY	About 2cm of flame can be detected from 5m away.	—	Usage environment: Indoor Flame retardant material 94V-0/IP-X5
DETECTION ANGLE	Left right 120° Up down 120°	—	Module length 450mm, 750mm, 850mm, 1050mm, 1350mm
DETECTION TIMER	About 0.5~4 sec (Variable)	—	ID can be set for each module
POWER SUPPLY VOLTAGE	AC100V-240V 50/60Hz		24V DC (Power supplied by dedicated controller)
POWER CONSUMPTION	100mA以下 (AC100V)	Max.150W (AC100V)	Approx.8.5W/m
ALARM OUTPUT (WIRED)	Alarm status output by HD-PLC communication	4 output I/O port	—
ALARM INPUT (WIRED)	—	4 input I/O port	—
ALARM ACTIVATION DISPLAY	ALARM ACTIVATION DISPLAY	ACTIVATION DISPLAY	—
Communication method	HD-PLC communication (Panasonic High-speed power line communication)		Low-speed PLC
OPERATING TEMPERATURE RANGE	-10°C ~ +60°C (No condensation or breezing)		-20 ~ 60°C (No condensation)
SIZE	Diameter: 105mm × H80mm	W140mm × D85mm × H68mm	W4mm × H10mm × (450-750-1050-1350)mm

IMAGE PROCESSING TYPE

MODEL : CD-F-301



This is an explosion-proof flame detector designed for harsh environments where you have to detect flame early and false alarms can not be allowed.

This device uses digital signal processing and software algorithms to detect characteristic features of the flame through image processing.

LIVE VIDEO

Live color video images are available from each detector. This makes it possible to display an image of the alert area on the control room monitor and help the operator to judge the situation.

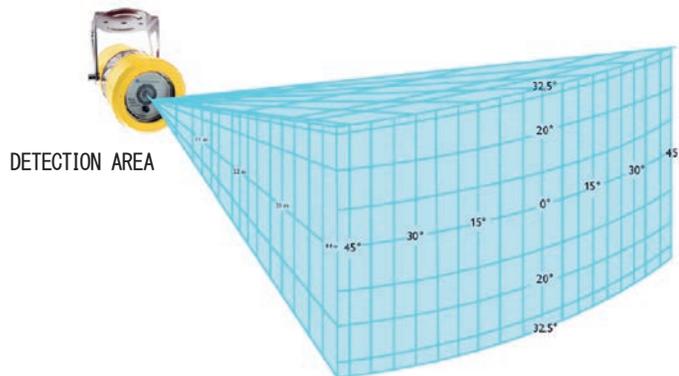
FALSE ALARMS TOLERANCE

Processing of the image from the optical detection device demonstrates excellent false alarm immunity. It is currently used in hundreds of facilities and has proven to be robust in harsh environments.

ON-BOARD micro SD CARD

It can record images before and after flame detection to the built-in micro SD card.

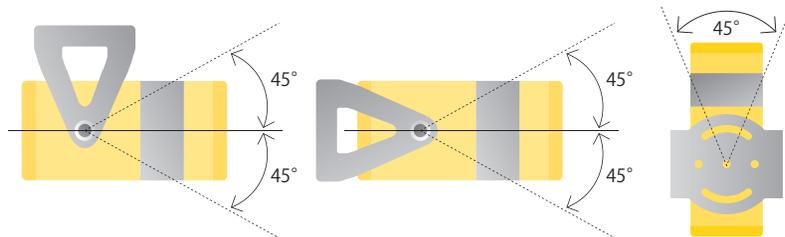
This recording is very important when conducting a fire accident investigation after the fire accident.



DETECTION CAPACITY

FIRE SOURCE	FIRE SIZE	DISTANCE
Methanol (Fuming)	0.9m	30m
Ethanol	0.1m ²	25m
N-heptane	0.1m ²	44m
Gasoline	0.1m ²	44m
JP4 (Jet fuel)	0.36m ²	61m
Ethylene glycol	0.1m ²	15m
Light oil	0.1m ²	40m
Diesel fuel	0.25m ²	40m
Crude oil	0.25m ²	40m
Silane (Silicon hydride)	0.61m	13m

ROTATION ANGLE OF MOUNTING PEDESTAL



SPECIFICATION

PRODUCT NAME	IMAGE PROCESSING TYPE FLAME DETECTOR
MODEL	CD-F-301
DETECTION METHOD	IMAGE PROCESSING
DETECTION CAPACITY	ANNEXED TABLE
DETECTION ANGLE	HORIZONTAL: L90° VERTICAL: 65°
POWER CONSUMPTION	6 W (w/o HEATER) 15 W (w/ HEATER)
RESPONSE	< 7 sec (standard)
OPERATING & STORAGING TEMPERATURE	-60°C ~ +85°C
ENVIRONMENT HUMIDITY	5~95% RH (NO CONDENSATION)
IP LEVEL	IP66
SIZE	φ 100 mm × L200 mm
WEIGHT	2.5kg ± 5% (AL) 6kg ± 5% (SS)

CD-FS-301 REMOTE TESTER



It is designed to test the correct operation of the CD-F series imaging flame detector. CD-FS-301 type remote tester generates a unique frame pattern that is recognized by the detector, and which causes the detector to initiate a complete alarm function test.

Diamond semiconductor UV sensor

Next-generation UV detection device jointly developed with NIMS.
(National Institute for Materials Science)

Ultraviolet light (UV-C), which has a wavelength close to X-rays, has very high energy, and like sensors, in case that it is always used under the such environment, it is need to replace regularly. Not only does diamond not deteriorate in this environment, it also has benefits below;

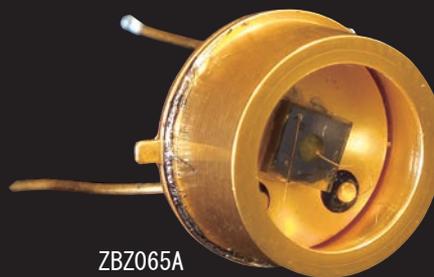
- 1.The output can be obtained in analog quantity compared to the UVtube method.(Capturing the size of the flame by volume.)
- 2.it can endure high temperature of body heat 550 degrees.
- 3.Since a semiconductor, it is excellent in impact resistance.
- 4.No resources required because diamond grows in plasma discharge.

APPLICATION

- UV power generation in space
- Radiation measurement
- Simple measurement of the ozone layer
- Temperature control feedback
- Separation of sunlight, flames, sparks, etc.



ZBZ065



ZBZ065A



ZBZ066

Manufacturing consignment

Built-in flame sensor in LED fluorescent light

MODEL : SKH085

It is very easy to deployment because wireless method doesn't require wiring. When detect flame, the blue LED lights up, and sends a signal from the built-in wireless transmitter,and receives on a fire occurrence with a dedicated receiver. By attaching 1pc sensor for every 20~30pcs LEDs, ECO and fire protection measures can be performed for the space such as office and commercial facility.

SPECIFICATION

PRODUCT NAME	Built-in flame sensor in LED fluorescent light
MODEL	SKH085
DETECTION METHOD	UV detection(Wavelength 185nm~260nm)
DETECTION CAPACITY	About 2cm of flame can be detected from 5m away.
DETECTION ANGLE	Left right 90° / Up down 90°
DETECTION TIME	0.5, 1, 2, 4, 8, 16 sec 6range
POWER SUPPLY VOLTAGE	Supplied by LED fluorescent light
POWER CONSUMPTION	Less than 0.3W(Only the sensor part)
ALARM OUTPUT (WIRED)	—
ALARM OUTPUT (WIRELESS)	315MHz weak electric wave(ID recognition)
ALARM ACTIVATION DISPLAY	BLUE LED LIGHT WILL TURN
SIZE	Refer to spec of LED fluorescent light.
WEIGHT	
CASE MATERIAL	



The blue LED lights up

*The spec of LED fluorescent lamps depends on the specifications of each manufacturer.(20W・40W equivalent products are available.)
*When changing from fluorescent light to LED, it is necessary to switch from ballast to switching power supply.



Tokyo R&D office

ANTEC

Company Profile

Management Philosophy	We build culture with fire as a friend, protect culture with fire as an enemy, and look at the rich life and prosperity of humanity with electronic technology.	
Company Name	ANTEC Co.,LD.	
Address	Head Office / 〒701-4254 116-3 mameda,okuchou,setouchi-shi, okayama,Japan R&D / 〒160-0023 22F,20-1 Nishishinjuku 7-chome,Shinjuku-ku,Tokyo,Japan	TEL(0869)22-2155 FAX(0869)22-3141 TEL(03)6279-1441 FAX(03)6279-1442
	URL http://www.antejapan.net/ [Main page] http://www.ante-shop.net/ [Sales page]	
	E-mail info@antejapan.net info@ante-shop.net	
Capital	1500 million yen	
CEO	Kenji Sueishi	
Our business	Manufacturing & sales of UV application equipment(Flame detection sensor) and Ceramics electronics / sales of Ceramics materials	
Joint research institute	NIMS((National Institute for Materials Science)	
Main bank	CHUGOKU BANK / TOMATO BANK / HINASE SHINKIN BANK / OKAYAMA SHINKIN BANK	

History

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|---|---|
| <p>1991. Sep :Signed technical service contracts with KENWOOD under new establishment as ANTEC.</p> <p>1992. Feb :Tarted inventing the devise for controlling fire in kiln mostly for Bizenyaki</p> <p>1995. July:Invented Ultra Violet sensor and fire detect devise.</p> <p>1996. June:Invented fire safety devise which controlls several burners in same time (AN518)</p> <p>1996. Sep :Invented a safety devise (SITO10) for construction of telecommunication cable (Nippon Telegraph and Telephone group)</p> <p>1996. Nov :Invented automatic fuel control for kiln.(AN2100)</p> <p>1997. May:Incorporated ANTEC. started to run business as ANTEC.Inc</p> <p>1998. Jan :Invented Supportive devise for kiln.(AN350)</p> <p>1999. Apr :Nvented Safety devise for electric kiln (AN900)</p> <p>1999. Aug :Upply of automatic fire controlling devise for electric kiln (SFK020)</p> <p>2000. June: Awarded by Information & Telecommunications Engineering Association of Japan (For Inventing small voltage converter)</p> <p>2003. June:Invented arson detect system (SKH 045/046)</p> <p>2003. Nov :Invented arson detect sensor (SKH047,048)</p> <p>2003. Des :Invenrted supportive devise for fires in kiln</p> <p>2005. Des :Started joint research with National Institute for Materials Science (NIMS)</p> <p>2006. Jan :Press release at NIMS in Tsukuba city. achieved detecting the fire by using diamond semiconductor first time in the world.</p> <p>2006. Dec :Increased capital (¥ 15,000,000)</p> <p>2007. Dec :approved for sales coordinating business by kinki Devison of Organization for small & medium enterprises and regional innovation Japan.</p> <p>2008. Jan :Exhibited international relief and trade Sponcered by (UNDP/DENVET) in Geneve, Switzerland</p> <p>2010. May :SKH047 was exhibited at world expo in Shanghai sponcered by (UNDP/DENVET)</p> <p>2011. Dec :AN350 was featured in a manga (Haruka no Sue) which is serialized in a weekly magazine called "weekly manga times".</p> <p>2012. May: Invented LED light which UV detecting senser is mounted inside (SKH084)</p> | <p>2016. Nov :Joint innovation of Smart guide (navigation hand rail) with Panasonic and Naka Corporation.</p> <p>2016. Dec :Innovated radio communication system (SKH186T2,SKH186R,SKH186D)</p> <p>2017. Apr :Opened office in Shinjuku,Tokyo (22F Shinjuku Sumitomo hudousan Nishi-Shinjuku Building)</p> <p>2017. Aug :Invented Long range radio communication system (SKH286T/SKH286R)</p> <p>2018. Jan : Renewed the model of SKH047 to SKH047M</p> |
|---|---|

Fire detect sensor



ANTEC "Fire detect sensor" can find fire definitely even under daylight by searching ultraviolet rays. It can search the moment of that arson is committed if it's put outside.

1. Detects a flame with high speed

It can Perceive even 2cm-flame from about 5m beyond. And it is hard to be influenced of a solar light.

2. Design without incongruity

It is much smaller than conventional sensor. Even if it was used for ordinary house, there is no sense of incongruity.

3. Abundant functions

It can operate alaem buzzer and revolving light, and can be connected other company's alarm equipment, because it has mechanical swich and electronic switch.

4. Five time-settings

Fire detection time can be set up, depends on a place and environment.

For example, it can Prevent the incorrect operation by a lighter flame when you smoke.

(The time you can set up are 1,2,4,8,16[seconds].)

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Cover illustration Kazumasa Uchio 「shinkiroukaku」



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この印刷の一部には、水質保全に有効な
水なし印刷方式を採用しています。



ANTEC

FIRE PROTECTION & FIRE DETECTION SENSOR