## PASSIVE INFRARED SENSOR

PA-470L WIDE ANGLE / LONG RANGE PA-480S SUPER WIDE ANGLE





# NEW GENERATION WALL MOUNT PASSIVE INFRARED SENSOR

**OPTIONAL: ATTACHMENT BCW-401** 

#### **PA-470L FEATURES**

#### QUAD ELEMENT+ NEW FUZZY LOGIC PROCESSING SYSTEM

"Fuzzy Logic" is the state-of-the-art processing system that simulates the human decision process as it compares various information such as size, temperature differential, etc. to determine the criteria for an alarm condition. This reduces false alarm while maintaining a high detection capability.

#### PATTERN SELECTABLE WITH INTERCHANGEABLE LENS

Wide angle / long range pattern is selectable during installation by convenient fresnel lens replacement. Spare long range lens is included in package. Zone changeover switch sets the detection pattern to match the lens pattern when lens is changed.

#### TROUBLE ALARM -LOW VOLTAGE-

When sensor detects a drop in supply voltage, the alarm relay and LED latches in alarm until voltage is restored to its proper level.

#### **ALARM MEMORY**

Units contain special circuitry to indicate that an alarm has been activated during armed period. Especially useful when more than one unit is used per zone.

#### REMOTE LED CONTROL

Enables/disables the LED via the control panel.

- \*Alarm LED selectable (ON/OFF)
- \*Alarm contact selectable (N.C./N.O.)
- \*Sensitivity adjustment (60%,80%,100%,120%)
- \*Zone changeover (Wide angle/long range)
- \*Anti-creep zone

#### **PA-480S FEATURES**

#### WALL MOUNT 180° COVERAGE

Two twin elements cover 90° each to create a full 180° pattern. Each 90° area can be vertically adjusted up or down to create the required coverage pattern.

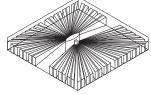
#### TROUBLE ALARM -LOW VOLTAGE-

When sensor detects a drop in supply voltage, a trouble alarm is output.

- \*Alarm LED selectable (ON/OFF)
- \*Signal count selectable (2 signals / 4 signals)
- \*Anti-creep zone



One unit covers two units' area



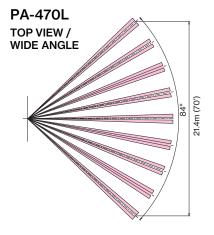
When installed on central pillar, 2 units cover 360° pattern



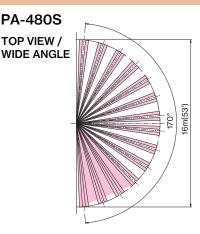
Different coverage by 90° each

## **PASSIVE INFRARED SENSOR**

#### **■** COVERAGE



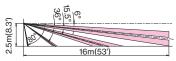
### **TOP VIEW / LONG RANGE**



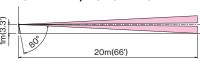
**PA-480S** 

TOP VIEW /

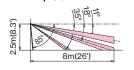
#### SIDE VIEW / WIDE ANGLE



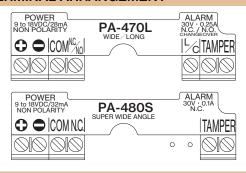
#### SIDE VIEW / LONG RANGE



#### SIDE VIEW / SUPER WIDE ANGLE

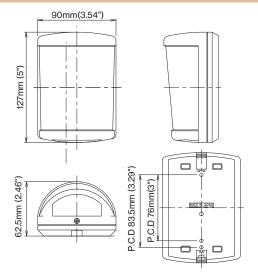


#### TERMINAL ARRANGEMENT



#### **■ EXTERNAL DIMENSIONS**

[Unit:mm (inch)]



#### ■ SPECIFICATIONS

Model	PA-470L		PA-480S
Detection	Passive infrared (Quad • Fuzzy logc)		Passive infrared (Twin element • pulse count)
Coverage	Wide angle 16m(53') Max	Long range 20m(66') Max	Super wide angle redius 8m(26') Max
Number of sensitive zone	22 paies (88)	2 paies (8)	32 pairs (64)
Mounting positions	Indoor wall / pillar		
Supply voltage	9.5 to 28 VDC (non-polarity)		
Power consumption	25mA Max.		20mA Max.
Alarm output	Dry contact relay (N.C./N.O. selectable) Reset : approx. 2sec. 30VDC (24VAC) • 0.25A Max (protective resistance 3.3 Ω built-in)		Dry contact relay (N.C.) Reset : approx. 2 sec. 30VDC (24VAC) • 0.1A Max (protective resistance 3.3 Ω built-in)
Temper output	Dry contact (N.C.) Ooen when cover is detached 30V • 0.1A Max		
Alarm LED	Red LED Warm up: flickering (every 0.5 sec.) Alam: solid (approx. 2 sec.) Memory: continuous solid Trouble alam: continuous solid (LED disable)		Red LED(2) Warm up: flickering (every 0.5 sec.) Alam: solid (approx. 2 sec.) Trouble alam: continuous solid (LED disable)
Alarm memory	Flickering : Memory activated Lighting : Memory indeication		
LED control	Controls alarm LED indication with terminal L/C		
Ttouble alarm	Low power voltage : monitors drop in power voltage Operate : initiate trouble alarm		
Ambient temp. range	-10°C to +50°C(+14°F to +122°F) without condensation		
Wiring	Terminals		
Area adjustment			Downward 5 positions
Weight	5.8oz. <u>(</u> 165g)		
Accessory	Fixing screw : Long rai	4 × 30 2pcs. nge lens	Fixing screw: 4×30 2pcs. Area lock screw: 3×10 1pce.

The passive infrared sensor is designed to detect infrared energy variations caused by the presence of a human body. Therefore, note that similar variations in conditions in protected area, due to other reasons, may cause the sensor to create an alarm as it is unable to distinguish between sources.

Please note: This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or a crime preventing device. TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation or improper maintenance.

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<sup>\*</sup> The specifications are subject to change without notice.