

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Panasonic Electric Works AHF11

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Panasonic Electric Works: Excellent Integrated System Limited Datasheet of AHF11 - SENSOR TILT 25-60DEG 100MA TH Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

AHF1



ECO-FRIENDLY SWITCHES

TIP (AHF1) SWITCHES

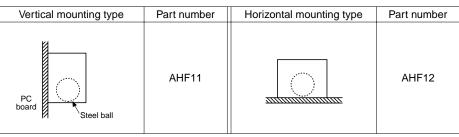
FEATURES

An eco-friendly switch-replacing a mercury switch with steel ball inside High corrosive gas resistance-sealed construction by O ring assures high contact reliability



TYPICAL APPLICATIONS

- For detection of tip Gas heaters Electric air conditioners Electric fans
 For criminal detection Vending machines Public phones Ammusement equipments
- ORDERING INFORMATION



SPECIFICATIONS

1. Contact rating

0.1A 30VDC Applicable range: 1mA 5VDC to 0.1A 30VDC

2. Characteristics

Expected electrical life (Min. operations)	0.1A 30VDC resistive	Min. 5 × 10 ³
	1mA 5VDC resistive	Min. 10 ⁶
Insulation resistance		Min. 100 m at 500 VDC
Dielectric strength		100 Vrms for 1 min.
Vibration resistance		2.9 m/s ² {0.3G} 40 to 400 Hz for 7 days 5 to 10 Hz at double amplitude of 10 mm, 5×10 ⁵ cycles
Shock resistance		588 mm/s ² {60G}, 6 directions, 3 times/each direction
Ambient temperature		−25°C to +85°C, −13°F to +185°F (not freezing below 0°C 32°F)
Ambient humidity		Max. 85%RH
Initial contact resistance	9	Max. 100 m (by voltage drop, 0.1A 6 to 8 VDC)

3. Operating characteristics

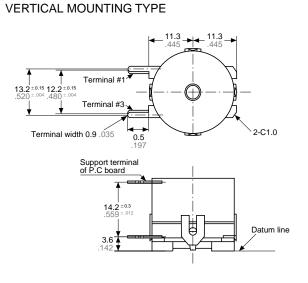
Operating angle (angle of turning off the circuit)	Goes off at more than 25 and less than 60 degrees in relation to the reference line (with an operation angle of 6 degrees/second in the X and Y directions)
Release angle (angle of turning on the circuit)	Goes on at 20 degrees or more (in the X and Y directions)

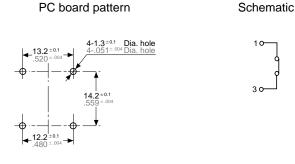


AHF1

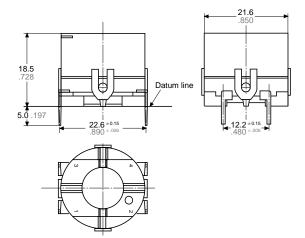
DIMENSIONS

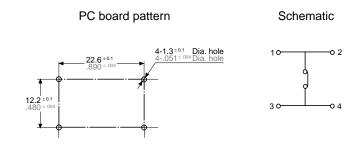
mm inch General tolerance $\pm 0.25 \pm .010$





HORIZONTAL MOUNTING TYPE





NOTES

1. Soldering operations

1) for manual soldering

Soldering should be accomplished in less than 8 seconds with a 60 watt iron max. (iron tip temperature: Max. 350°C 662°F) 2) For automatic soldering Soldering should be done less than 10 seconds in 260°C 500°F solder bath or less than 3 seconds in 350°C 662°F solder bath.

2. Environment

Avoid using and keeping switches in the following conditions.

- In corrosive gases
- In a dusty environment
- Where silicon atmosphere prevails

3. Quality check under actual loading conditions

To assure reliability, check the switch under actual loading conditions.

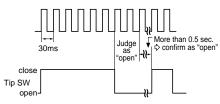
4. Recommended circuit for tip

Contact chattering may happen when vibration or shock is applied to the switch because of a leaf spring and steel ball inside. Please detect a signal by following procedure.

1) Read access by a microcomputer should be done every 30 msec. at 1mA 5VDC.

2) Two reading 'open' in succession should be judged as 'open' condition.3) After the judgement, if the 'open' condition continues for more than 0.5 sec., the condition should be confirmed lastly.

<Example> Microcomputer read access



5. Others

• Switch cover is set to the body through O-ring for sealing purpose. Do not disassemble the switch or the characteristics may change.

 For switching of inductive loads (relay, solenoids, buzzars, etc.), in order to prevent damage to contacts due to the occurrence of arcing, an arc absorbing circuit should be applied.