Linear Systems

** We Serve, with Honours **

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UV FLAME AMPLIFIER / RELAY

(Model UV-FR-01 / Model UV-FR-21)

The UV Flame Amplifier / Relay is used in conjunction with UV Flame Sensor (Model UV-01) to detect various types of flames, namely, gas, oil, coal etc. The UV Flame Amplifier is essentially a stand-alone unit, which has two potential-free relay contact outputs, rated at 230 V Ac, 5A. The output contacts can used for alarm, annunciation or trip purposes. The front Panel has indications for SUPPLY ON. This will turn ON when the supply is given to Terminal 1 & 2. The RELAY ON indicator indicates presence of UV radiation and Relay ON condition.

The Model UV-FR-01 has built-in time delay of about 2 seconds OFF delay. This feature avoids nuisance tripping, in the case of transient flame flicker. The Model UV-FR-21 has a site-adjustable time delay of 2 to 8 seconds and is useful for installations with high flicker.

The Amplifier is housed in a compact 70 (L) x 55 (B) x 115 (H) mm ABS plastic molded enclosure suitable for DIN standard Rail Mounting. However, it can also be mounted with the help of 2 mounting holes provided at the base.

IMPORTANT NOTE

Even though the UV Flame Amplifier is designed to work with Linear Systems make UV Sensor (Model UV-01), it has been found to work satisfactorily with UV sensors (UV tubes) of various makes, namely, Landis & Gyr, Honeywell, etc. It is important to ensure that the UV tube is rated at 230 V AC rms (325 V DC peak). It is the responsibility of the User to ensure the compatibility both in terms of ratings and satisfactory operation.

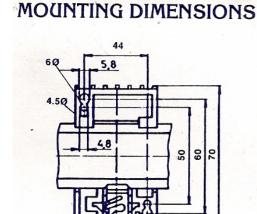
PRECAUTIONS WHILE CONNECTING THE FLAME SENSOR.

- 1. Supply voltage 230 V AC +/- 10 %, 50 Hz.
- 2. Relay contacts are rated for 5 Amps resistive at 230 V AC.
- 3. Please take precaution to connect UV Sensor assembly with correct Color of wire to the corresponding terminal as shown on the Label (Red + & Black -) WRONG CONNECTION WILL CAUSE FAULTY OPERATION.
- 4. For better sensitivity mount the Assembly with side window facing the Flame.

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BOX DIMENSIONS AND MOUNTING DETAILS

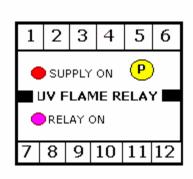




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75x50x110mm (Lx Bx H)

TERMINAL SCHMATIC DIAGRAM



- 1. PHASE
 7.N/C

 2. NEUTRAL
 8. COM

 3. NO CONNECTION
 9. N/O

 4. NO CONNECTION
 10. N/C
- 5. UV SENSOR + RED 11. COM 6. UV SENSOR - BLACK 12. N/O
- P POTENTIOMETER FOR DELAY ADJUST 2-8 SECONDS.

NOTES:

The adjustable delay feature is available only for Model UV-FR-21.

Please specify postfix of Q for compatibility with QRA-2 type UV Sensor. For example, UV-FR-01-Q or UV-FR-21-Q. It essentially has reversed polarities for UV Sensor connection.