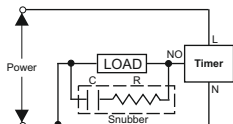


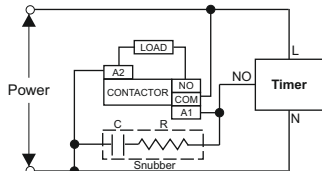


### ⚠ Caution:

1. Please check polarity of DC power input before connecting.
2. Load connection :
  - I. For load current less than 0.5A.



- II. For bigger loads, use interposing relay/contactors .



Snubber Part No.: APRC-01.

Note : Use snubber as shown above to increase the life of internal relay

3. Change the settings of modes, time range, time scale or division knobs only when the unit is powered off.
4. Fuse protection : The equipment does not have any built-in fuse. Fuse rating of 275VAC/1A is recommended.

### EMC Installation Guidelines:

1. Use proper input power cables with shortest connections and twisted type.
2. Layout of connecting cables must be away from any internal EMF source

### Mechanical Installation Guidelines:

1. The equipment uses 8-Pin Relay Socket with a clamp for T-type Din-Rail.
  2. Ensure unit is correctly fitted on to the 8-Pin Socket.
  3. Slide the equipment using appropriate tools and holding the unit from the front side, slide it over the fixed rail.
- **Malfunction may occur if above instructions are not followed**

### SPECIFICATIONS

Time Setting Range : 0.05sec - 300hour  
Supply Voltage : 20-240VAC / DC,  
50/60Hz

Power Consumption : Max 5VA  
Contact type : 2 SPDT (1C/O)  
Contact capacity : 250VAC,  
6A resistive load

Electrical life of relay : 100,000 operations

Mechanical life : 10,000,000

of relay operations

Accuracy Setting :  $\pm 5\%$  of full scale or  
 $\pm 50\text{ms}$  (whichever is greater)

Repeat :  $\pm 0.5\% \pm 50\text{ms}$   
(whichever is greater)

### Environmental conditions :

Operating : 0 to 50°C

Storage : -20 to 75°C

Humidity : 95%RH

Pollution degree : 2

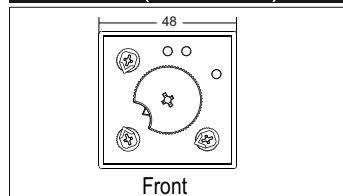
### Mechanical specification :

Mounting : Plug

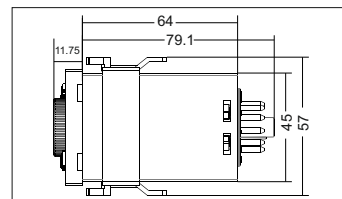
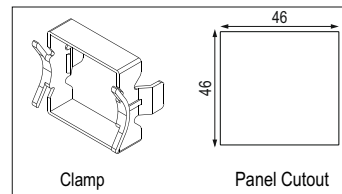
Weight : 100 gms

Compliance CE

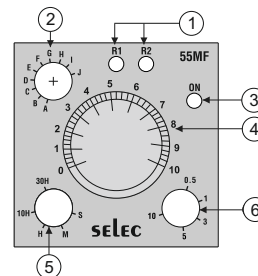
### DIMENSIONS (All are in mm.)



Front



### FRONT PANEL DESCRIPTION



1. Red LED indicates Relay R1 & Green LED indicates Relay R2
2. Knob for Operating mode Selection
3. Red LED indicates Power ON
4. Knob for time selection  
(The marking 1 to 10 represents timing in proportion to full scale time range)
5. Knob for time range selection
6. Knob for time scale selection

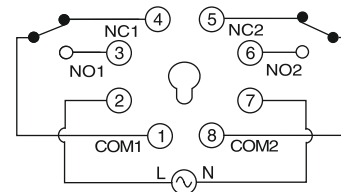
### TIME SPECIFICATION

| Time range | Time unit | Time setting range |
|------------|-----------|--------------------|
| 0.5        | S         | 0.05 to 0.5 sec    |
| 1          |           | 0.1 to 1 sec       |
| 3          |           | 0.3 to 3 sec       |
| 5          |           | 0.5 to 5 sec       |
| 10         |           | 1 to 10 sec        |
| 0.5        | M         | 0.05 to 0.5 min    |
| 1          |           | 0.1 to 1 min       |
| 3          |           | 0.3 to 3 min       |
| 5          |           | 0.5 to 5 min       |
| 10         |           | 1 to 10 min        |
| 0.5        | H         | 0.05 to 0.5 hour   |
| 1          |           | 0.1 to 1 hour      |
| 3          |           | 0.3 to 3 hour      |
| 5          |           | 0.5 to 5 hour      |
| 10         |           | 1 to 10 hour       |
| 0.5        | 10H       | 0.5 to 5 hour      |
| 1          |           | 1 to 10 hour       |
| 3          |           | 3 to 30 hour       |
| 5          |           | 5 to 50 hour       |
| 10         |           | 10 to 100 hour     |
| 0.5        | 30H       | 1.5 to 15 hour     |
| 1          |           | 3 to 30 hour       |
| 3          |           | 9 to 90 hour       |
| 5          |           | 15 to 150 hour     |
| 10         |           | 30 to 300 hour     |

**Note :** Time range x Time unit = Maximum time setting range

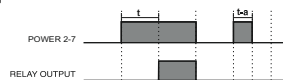
### TERMINAL CONNECTIONS

#### 8-PIN PLUG-IN TYPE

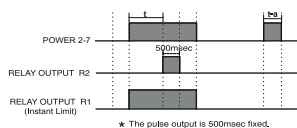


## FUNCTIONS

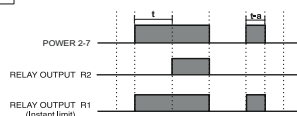
### A ON Delay



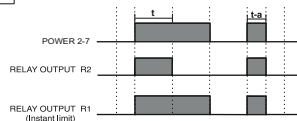
### B Pulse Output with instantaneous limit



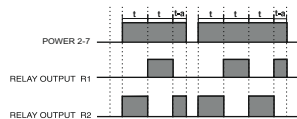
### C ON Delay with Instantaneous limit



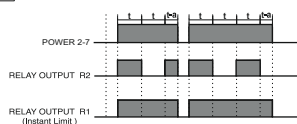
### D Interval with Instantaneous limit



### E Cyclic Equal OFF First

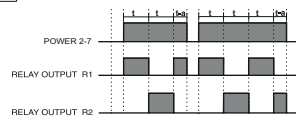


### F Cyclic Equal OFF First with Instantaneous limit

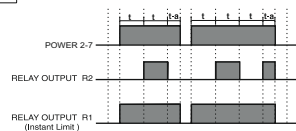


t: Set Time, t>t-a

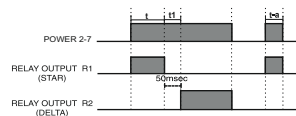
### G Cyclic Equal ON First



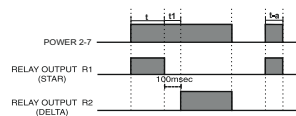
### H Cyclic Equal ON First with Instantaneous limit



### I Star delta with 50ms pause time



### J Star delta with 100ms pause time



### Note :

1. When using mode E, F, G & H, setting a very small time may not guarantee proper operation.  
Set time more than 100ms.
2. When using mode I & J : t = Run Up Time  
t1 = Pause Time

## ORDER CODE INFORMATION

| Product | Supply                   | Certification |
|---------|--------------------------|---------------|
| 55MF-P8 | 20-240 VAC/DC<br>50/60Hz | CE            |

(Specifications are subject to change, since development is a continuous process.)

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