

PTC-13-LV-A & PTC-13-A



Multifunction Digital Timer



- Dual 4 digit green LCD display timer
- 13 programmable timing modes
- 9 time ranges from 99.99sec to 9999hrs
- 7-24Vac/9-30Vdc or 90-250Vac
- 1 changeover and 1 N/O relay output
- 2 SSR drive outputs
- Programmable start, gate and reset
- EEPROM memory (minimum 10 years)
- Security passcode
- Standard DIN48 square size
- IP65 front enclosure code
- Panel mounting
- CE and RoHS compliant



The Omega PTC-13-A dual 4 digit digital timer is a multifunction, multi-time range digital timer suitable for controlling operation of equipment, machinery, systems or processes in a wide range of industrial applications.

Thirteen timing functions can be selected together with time ranges from 0.01 seconds to 9999 hours, to operate two independent relay output contacts which are isolated from the supply voltage.

The output contacts can be configured as two timed outputs, or one timed and one instantaneous output.

These timers are housed in a compact DIN48 square panel mounting enclosure and are powered from 7-24Vac/9-30Vdc or 90-250Vac.

Specifications

Accuracy: $\pm 0.01\%$ $\pm 1\text{ms}$

Power Supply Voltage:

PTC-13-LV-A 7-24Vac/9-30Vdc ($\pm 10\%$)

PTC-13-A 90-250Vac ($\pm 10\%$)

Burden: $< 5\text{VA}$

Frequency: 50/60Hz

Time Ranges: 0.01 to 99.99sec, 0.1 to 999.9sec, 1 to 9999sec, 00:01 to 99:59min, 0.1 to 999.9min, 1 to 9999min, 00:01 to 99:59hrs, 0.1 to 999.9hrs, 1 to 9999hrs

Relay Output: Single pole changeover contact and single pole N/O contact

Contact Rating:

OP1 10A at 250Vac/30Vdc (resistive)

OP2 5A at 250Vac/30Vdc (resistive)

Relay Contact Life:

Electrical: 200,000 operations

Mechanical: 5,000,000 operations

SSR Drive Output: Open collector output, maximum 30Vdc, 100mA

Start, Gate & Reset Inputs:

PNP or NPN programmable minimum pulse/void durations adjustable from 5 to 100ms

PNP active level is a 5 to 30V pulse

NPN active level is a 0 to 2V pulse

Mechanical

Enclosure: Panel mounting to DIN 43700, Self extinguishing plastic case Plug in connection terminals

Enclosure Code: Case front IP65, Case rear IP20

Weight: 230g

Environmental

Operating Temperature:

0°C to 50°C (32°F to 122°F)

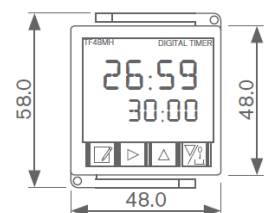
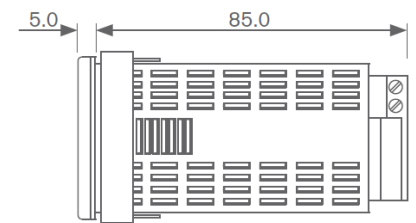
Storage Temperature:

-25°C to 70°C (-13°F to 158°F)

General

Markings: CE marked

(meets EN61010-1:2010 low voltage and EN61326-1:2013 EMC directives)



Panel cutout 45mm square (-0.0/+0.6)

Timing Modes

| Timing Mode | Timing Function Description | Start / Reset / Restart / Count |
|-------------|---|--|
| Mode 0 | Delay on Energise, Interval or Delayed Pulse | Close to Start, Reset when Start Opens |
| Mode 1 | Delay on Energise, Interval or Delayed Pulse | Pulse to Start |
| Mode 2 | Delay on Energise, Interval or Delayed Pulse | Close to Start, Restarts when Start Opens |
| Mode 3 | Delay on Energise, Interval or Delayed Pulse | Open to Start, Close Start to Reset |
| Mode 4 | Delayed Cycle or Immediate Cycle with Equal On and Off Time | Pulse to Start |
| Mode 5 | Delayed Cycle or Immediate Cycle with Equal On and Off Time | Close to Start, Reset when Start Opens |
| Mode 6 | Delay on Energise, Interval or Delayed Pulse | Count only with Start Closed |
| Mode 7 | Delay on Energise, Interval or Delayed Pulse | Count only with Start Closed, Restarts when Start Closed again |
| Mode 8 | Delayed Cycle or Immediate Cycle with Single Cycle and Equal On and Off Time | Pulse to Start |
| Mode 9 | Delayed Cycle or Immediate Cycle with Variable On and Off Times | Pulse to Start |
| Mode A | Delayed Cycle or Immediate Cycle with Variable On and Off Times | Close to Start, Reset when Start Opens |
| Mode b | Double Output Delayed Cycle or Immediate Cycle with Variable On and Off Times | Pulse to Start |
| Mode C | Delay on Energise, Interval or Delayed Pulse | Count only with Start Closed, Restarts when Start Opens |

Front Panel Display Functions



| To Order | |
|-------------|------------------------------------|
| P/N | Description |
| PTC-13-LV-A | Dual Digital Timer 7-24Vac/9-30Vdc |
| PTC-13-A | Dual Digital Timer 90-250Vac |