

# MULTIFUNCTION PROGRAMMABLE NON-MEMORY TIMER — RCT703



- Volatile memory
- 1 setpoint, on pushwheel switches
- 9 user selectable ranges
- 10 milliseconds to 9999 hours
- 4 user selectable relay functions
- Incrementing / decrementing display
- 4 control inputs
- Fixed/Configurable control inputs
- ± 0.01% quartz crystal accuracy
- Supply voltage : 85 ~ 265 V AC OR 24 V DC

## SPECIFICATIONS All specifications at ambient of 25 °C, unless specified otherwise

|  |   |   |   |
|--|---|---|---|
| <b>Range</b>   | See Table 1   | <b>Control input 3</b>                      | Refer Table 3<br>(For order code 2247-01)   |
| <b>Resolution</b>  | See Table 1   | <b>Control input 4</b>                      | Refer Table 3<br>(For order code 2247-01)   |
| <b>Accuracy</b>  | ± 0.01% of reading ± 0.2 second   | <b>Units</b>                                | Seconds / Minutes / Hours   |
| <b>Timing start delay<br/>(after application of power)</b>         | 0.05 Sec (max)  | <b>Resolution</b>                           | 0.01, 0.1, 1  |
| <b>OUTPUTS</b>   |   | <b>Functions</b>                            | a) ON delay<br>b) OFF delay<br>c) Cyclic C1(Relay ON at power ON)<br>d) Cyclic C2(Relay OFF at power ON)<br>(See Fig 1,2) |
| <b>No. of relays</b>   | 1   | <b>Direction</b>                            | Up (incrementing)<br>Down (decrementing)  |
| <b>Relay contacts</b>  | 1 x NO-C-NC + 1 x NO-C  | <b>Reset lock<br/>(For front key reset)</b> | ON, OFF   |
| <b>Relay contact rating</b>  | 5A / 230V AC, resistive   | <b>Program lock</b>                         | ON, OFF   |
| <b>Functions</b>   | See Fig.1, 2  | <b>OTHER</b>                                |   |
| <b>Mutual isolation between<br/>Input/Output/Supply</b>            | 1500 V AC / 1 Minute  | <b>Keyboard</b>                             | Tactile, 2 keys   |
| <b>CONTROL INPUTS</b>  |   | <b>Enclosure construction</b>               | Plug-in (circuit removable without<br>affecting terminal wiring)  |
| <b>No. of control inputs</b>                                       | 4   | <b>Dimensions (in mm)</b>                   | 72(H) x 72(W) x 100(D)  |
| <b>Control input function<br/>configuration</b>                    | a) Fixed<br>b) User configurable<br>See Table 2, 3  | <b>Mounting</b>                             | Panel mount   |
| <b>Control input functions</b>                                     |   | <b>Panel cutout</b>                         | 68 x 68 mm  |
| <b>Assignment of control input<br/>functions to control inputs</b> | a) Fixed : See Table 2<br>b) User configurable :<br>i) Any control function can be<br>assigned to any control input<br>ii) One control function can be<br>assigned to any one control input<br>only (See Table 3) | <b>Operating ambient<br/>temperature</b>    | 0~50 °C   |
| <b>Front panel reset</b>   | Will have the same function as<br>reset function selected for control<br>input  | <b>Relative humidity</b>                    | Below 90%, non condensing   |
| <b>POWER SUPPLY</b>  |   |   |   |
| <b>Supply voltage</b>  | 85~265 V AC OR 24 V DC  |   |   |
| <b>INDICATION</b>  |   |   |   |
| <b>Display</b>   | 4 digit, 7 segment 0.52" (13.2 mm)<br>red LED display   |   |   |
| <b>MEMORY</b>  | Non volatile, indefinite retention<br>(for elapsed time)  |   |   |
| <b>PROGRAMMABLE<br/>PARAMETERS</b>                                 |   |   |   |
| <b>Setpoint</b>  | 1x4 digit pushwheel switches  |   |   |
| <b>Timer Start<br/>(After timer start)</b>                         | Power ON, Control input 1(Start)  |   |   |
| <b>Control input 1</b>   | Refer Table 3<br>(For order code 2284-01)   |   |   |
| <b>Control input 2</b>   | Refer Table 3<br>(For order code 2284-01)   |   |   |

TABLE 1 - RANGE SELECTION

| UNIT | RANGE     | RESOLUTION |
|------|-----------|------------|
| s    | 99.99 s   | 0.01 s     |
| s    | 999.9 s   | 0.1 s      |
| s    | 9999 s    | 1 s        |
| m    | 99 m 59 s | 1 s        |
| m    | 999.9 m   | 0.1 m      |
| m    | 9999 m    | 1 m        |
| h    | 99 h 59 m | 1 m        |
| h    | 999.9 h   | 0.1 h      |
| h    | 9999 h    | 1 h        |

# MULTIFUNCTION PROGRAMMABLE NON-MEMORY TIMER — RCT703

## OPERATING MODES

t = SETPOINT      RELAY ON    RELAY OFF    SUPPLY ON    START PULSE

### POWER ON START

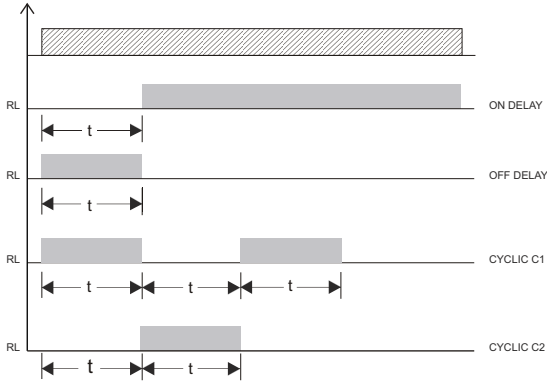


Fig 1

### START PULSE

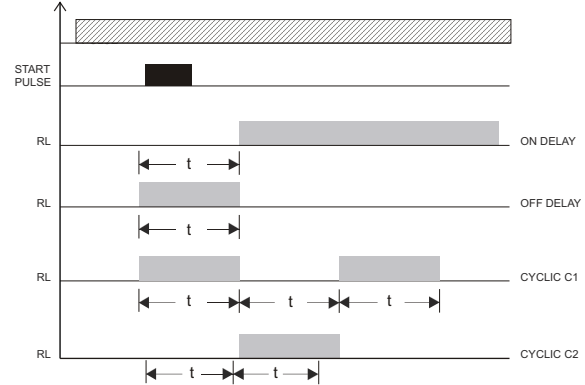


Fig 2

TABLE 2 - FIXED CONTROL INPUTS (ORDER CODE : 2284-00)

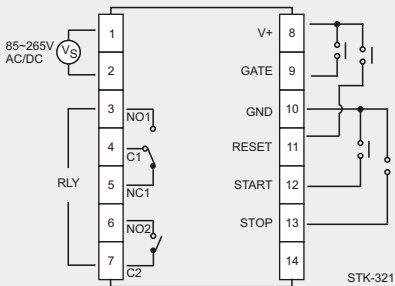
| CONTROL INPUT FUNCTION | DESCRIPTION   | CONTROL INPUT FUNCTION | DESCRIPTION   |
|------------------------|---|------------------------|---|
| 1 Start                | Start the timer   | 3 Gate                 | Freeze the timer as long as input is present & relay maintain status. |
| 2 Reset                | Timer is reset as long as input is present, timer starts when input is removed. | 4 Stop                 | Stop the timer & relay turn OFF.                                      |

TABLE 3 - CONFIGURABLE CONTROL INPUTS (ORDER CODE : 2284-01)

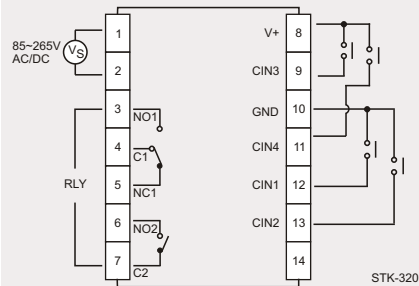
| CONTROL INPUT FUNCTION | DESCRIPTION   | CONTROL INPUT FUNCTION | DESCRIPTION  |
|------------------------|---|------------------------|--|
| 1 Start                | Start the timer   | 6 Gate2                | Freeze the timer as long as input is present & relay turn ON.  |
| 2 Reset1               | Timer is reset as long as input is present, timer starts when input is removed. | 7 Gate3                | Freeze the timer as long as input is present & relay turn OFF. |
| 3 Reset2               | Pulse reset, reset the timer & start immediate.                                 | 8 Stop1                | Stop the timer & relay maintain status.                        |
| 4 Reset3               | Reset the timer, start pulse is require to start the timer.                     | 9 Stop2                | Stop the timer & relay turn ON.                                |
| 5 Gate1                | Freeze the timer as long as input is present & relay maintain status.           | 10 Stop3               | Stop the timer & relay turn OFF.                               |

## CONNECTION DIAGRAM

### FIXED INPUTS



### CONFIGURABLE INPUTS



## ORDERING INFORMATION

| ORDER CODE |                |
|------------|----------------|
| 2284       | A              |
| A          | Control Inputs |
| 01         | Fixed          |
| 02         | Configurable   |

### Ordering Options

The following ordering options are available on request. Minimum order quantity and/or minimum order value may apply.

|    | Option         | Details |
|----|----------------|---------|
| 1. | Supply voltage | 24 V DC |
| 2. | Supply voltage | 24 V AC |

**radix**

RADIX ELECTROSYSTEMS PVT LTD  
EL-135/136/137, Electronics Zone  
TTC Indl. Area, MIDC, Mahape  
Navi Mumbai - 400 710, India  
+ 91 22 42537777 | sales@radix.co.in

### OTHER ENQUIRIES

**Instruments** sales@radix.co.in  
**Sensors** sensors@radix.co.in  
**Gauges** gauges@radix.co.in  
**Automation** automation@radix.co.in