



- Non-volatile memory
- 2-setpoint, dual display
- 9 user selectable ranges
- 10 milliseconds to 9999 hours
- 4 user selectable relay functions
- 3 user selectable modes
- Incrementing / decrementing display
- 2 control inputs
- Fixed/Configurable control inputs
- 0.01% quartz crystal accuracy
- Supply voltage : 85 ~ 265 V AC

SPECIFICATIONS

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

Range	See Table 1	Control input 2	Refer Table 3 (For order code 2290-02)																														
Resolution	See Table 1	Units	Seconds / Minutes / Hours																														
Accuracy	± 0.01% of reading ± 0.2 second	Resolution	0.01, 0.1, 1																														
Timing start delay (after application of power)	0.05 Sec (max)	Functions	a) ON delay b) OFF delay c) Cyclic C1 (Relay ON at power ON) d) Cyclic C2 (Relay OFF at power ON) (See Fig 1, 2)																														
OUTPUTS		Direction	Up (incrementing) Down (decrementing)																														
No. of relays	2	Mode	Modes 0 ~ 2, See Fig 1 ~ 6																														
Relay contacts	2 x NO-C-NC (RL1) 1 x NO-C (RL2)	Relay2*	ON / OFF																														
Relay contact rating	5A / 230V AC, resistive	Reset lock (For front key reset)	ON, OFF																														
Functions	See Fig.1, 2	Program lock	ON, OFF																														
Mutual isolation between Input/Output/Supply	1500 V AC / 1 Minute	OTHER																															
CONTROL INPUTS		Keyboard	Tactile, 3 keys																														
No. of control inputs	4	Enclosure construction	Plug-in (circuit removable without affecting terminal wiring)																														
Control input function configuration	a) Fixed b) User configurable	Dimensions (in mm)	48(H) x 48(W) x 100(D)																														
Control input functions	See Table 2, 3	Mounting	Panel mount																														
Assignment of control input functions to control inputs	a) Fixed : See Table 2 b) User configurable : i) Any control function can be assigned to any control input ii) One control function can be assigned to any one control input only (See Table 3)	Panel cutout	44 x 44 mm																														
Front panel reset	Will have the same function as reset function selected for control input	Operating ambient temperature	0~50 °C																														
POWER SUPPLY		Relative humidity	Below 90%, non condensing																														
Supply voltage	85~265 V AC / DC, 50 Hz	* Available only when mode 0 is selected.																															
INDICATION		TABLE 1 - RANGE SELECTION																															
Display	Upper : 4 digit, 7 segment 0.3" (7.6 mm) red LED display Lower : 4 digit, 7 segment 0.3" (7.6 mm) green LED display	<table border="1"> <thead> <tr> <th>UNIT</th> <th>RANGE</th> <th>RESOLUTION</th> </tr> </thead> <tbody> <tr> <td>s</td> <td>99.99 s</td> <td>0.01 s</td> </tr> <tr> <td>s</td> <td>999.9 s</td> <td>0.1 s</td> </tr> <tr> <td>s</td> <td>9999 s</td> <td>1 s</td> </tr> <tr> <td>m</td> <td>99 m 59 s</td> <td>1 s</td> </tr> <tr> <td>m</td> <td>999.9 m</td> <td>0.1 m</td> </tr> <tr> <td>m</td> <td>9999 m</td> <td>1 m</td> </tr> <tr> <td>h</td> <td>99 h 59 m</td> <td>1 m</td> </tr> <tr> <td>h</td> <td>999.9 h</td> <td>0.1 h</td> </tr> <tr> <td>h</td> <td>9999 h</td> <td>1 h</td> </tr> </tbody> </table>		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
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MEMORY	Non volatile, indefinite retention (for elapsed time)																																
PROGRAMMABLE PARAMETERS																																	
Setpoint 1	0.01 to 9999																																
Setpoint 2	0.01 to 9999																																
Timer Start (After timer start)	Power ON, Control input 1(Start)																																
Control input 1	Refer Table 3 (For order code 2290-02)																																

OPERATING MODES

t1 = SETPOINT1 t2 = SETPOINT2 RELAY ON RELAY OFF SUPPLY ON START PULSE

MODE 0 - POWER ON START

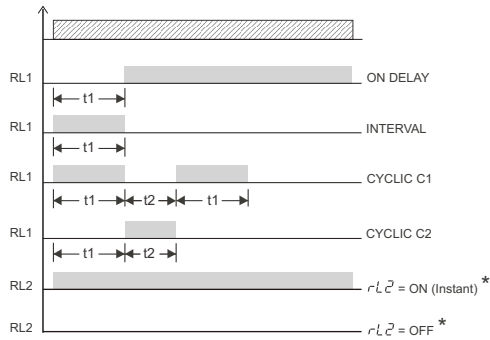


FIG 1

MODE 0 - START PULSE

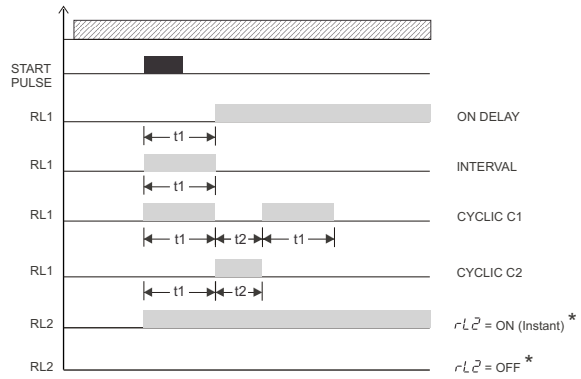


FIG 2

MODE 1 - POWER ON START

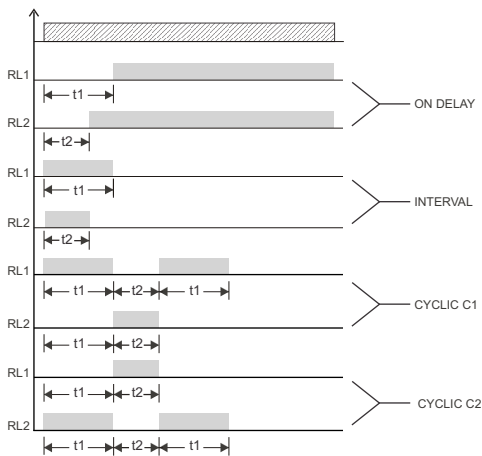


FIG 3

MODE 1 - START PULSE

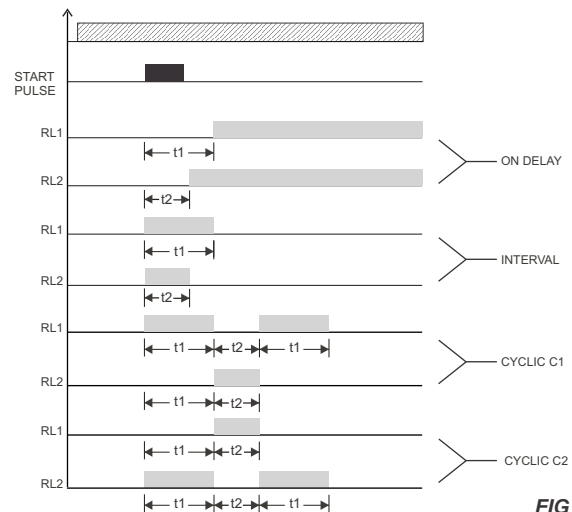


FIG 4

MODE 2 - POWER ON START

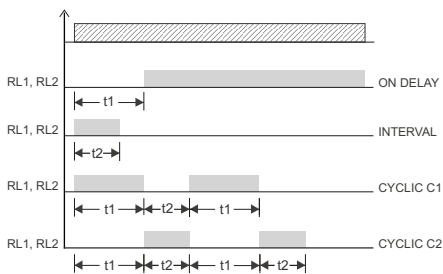


FIG 5

MODE 2 - START PULSE

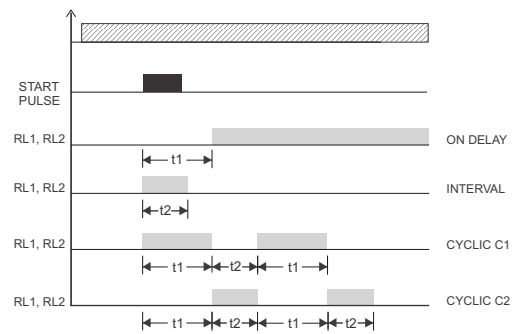


FIG 6

WITHOUT MEMORY, 12 TIMING FUNCTIONS, 2 FIXED/CONFIGURABLE CONTROL INPUTS

TABLE 2 - FIXED CONTROL INPUTS (ORDER CODE : 2290-01)

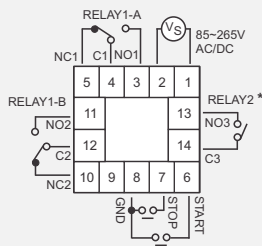
CONTROL INPUT FUNCTION	DESCRIPTION	CONTROL INPUT FUNCTION	DESCRIPTION
1 Start	Start the timer	2 Stop	Stop the timer & relay turn OFF.

TABLE 3 - CONFIGURABLE CONTROL INPUTS (ORDER CODE : 2290-02)

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

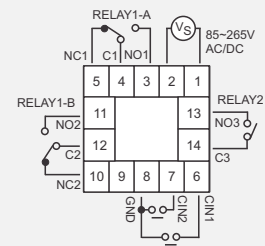


* - RCT602/RCT702 ONLY

STK-349

ORDER CODE : 2290-01

CONFIGURABLE INPUTS



* - RCT602/RCT702 ONLY

STK-350

ORDER CODE : 2290-02

ORDERING INFORMATION

ORDER CODE		
2290	A	
A	Configuration	
	Fixed	Configurable
	01	0
02	1	

TIMERS, COUNTERS & RATE INDICATORS

SELECTION TABLE

Product	Model	Size h x w x d mm	Setpoints	Retransmission Output	Supply	Display Digits	Non-volatile Memory	Remarks
Programmable RPM/ Rate indicator	RCT202	48x96x100	0	0	85~265 V AC OR 24 V DC	4	No	–
RPM/Rate indicator with alarms	RCT206	48x96x100	2	1	85~265 V AC OR 24 V DC	6+6	No	–
RPM/Rate indicator with totaliser	RCT203	48x96x100	0	0	85~265 V AC OR 24 V DC	6	Yes	–
Preset counter with RPM/Rate indicator	RCT205	48x96x100	2	1	85~265 V AC OR 24 V DC	6+6	Yes	–
Preset counter with RPM/Rate indicator	RCT301	72x72x100	2	1	85~265 V AC OR 24 V DC	6+6	Yes	–
Preset counter/ Totaliser	RCT401	72x72x100	2	0	85~265 V AC OR 24 V DC	6	Yes	–
Preset counter	RCT403	72x72x100	1	0	85~265 V AC OR 24 V DC	6	Yes	Pushwheel switch, 6-digit
Preset counter	RCT404	72x72x100	1	0	85~265 V AC OR 24 V DC	4	Yes	Pushwheel switch, 4-digit
Multifunction memory timer	RCT601	48x48x100	2	0	85~265 V AC	4	Yes	9 ranges, 4 functions, configurable control inputs
Multifunction memory timer	RCT602	48x48x100	2	0	85~265 V AC	4+4	Yes	9 ranges, 12 functions, configurable control inputs
Multifunction memory timer	RCT604	72x72x100	2	0	85~265 V AC OR 24 V DC	4	Yes	9 ranges, 4 functions, configurable control inputs
Multifunction memory timer	RCT605	72x72x100	2	0	85~265 V AC OR 24 V DC	4+4	Yes	9 ranges, 12 functions, configurable control inputs
Multifunction memory timer	RCT606	72x72x100	1	0	85~265 V AC OR 24 V DC	4	Yes	Pushwheel switch, configurable control inputs
Cyclic timer with cycle counter	RCT608	72x72x100	2	0	85~265 V AC OR 24 V DC	4+4	Yes	ON & OFF SP with individual unit & resolution
Multifunction non-memory timer	RCT701	48x48x100	2	0	85~265 V AC	4	No	9 ranges, 4 functions, configurable control inputs
Multifunction non-memory timer	RCT702	48x48x100	2	0	85~265 V AC	4+4	No	9 ranges, 12 functions, configurable control inputs
Multifunction non-memory timer	RCT703	72x72x100	1	0	85~265 V AC OR 24 V DC	4	No	Pushwheel switch, configurable control inputs
Multifunction non-memory timer	RCT707	72x72x100	2	0	85~265 V AC OR 24 V DC	4	No	9 ranges, 4 functions, configurable control inputs
Multifunction non-memory timer	RCT708	72x72x100	2	0	85~265 V AC OR 24 V DC	4+4	No	9 ranges, 12 functions, configurable control inputs
Digital Din rail timer	T25	80x25x85	2	0	20~265 V AC/DC, 50/60 Hz	2	No	Standard, Star/ Delta, Forward / Reverse



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