



- 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
- 4 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

<b>Range</b>	See Table 1	<b>Control input 2</b>	Refer Table 3 (For order code 2289-01)
<b>Resolution</b>	See Table 1	<b>Control input 3</b>	Refer Table 3 (For order code 2289-01)
<b>Accuracy</b>	± 0.01% of reading ± 0.2 second	<b>Control input 4</b>	Refer Table 3 (For order code 2289-01)
<b>Timing start delay (after application of power)</b>	0.05 Sec (max)	<b>Units</b>	Seconds / Minutes / Hours
<b>OUTPUTS</b>		<b>Resolution</b>	0.01, 0.1, 1
<b>No. of relays</b>	2	<b>Functions</b>	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)
<b>Relay contacts</b>	1 x NO-C-NC (RL1) 1 x NO-C (RL2)	<b>Direction</b>	Up (incrementing) Down (decrementing)
<b>Relay contact rating</b>	5A / 230V AC, resistive	<b>Mode</b>	Modes 0 ~ 2, See Fig 1 ~ 6
<b>Functions</b>	See Fig.1, 2	<b>Relay2*</b>	ON / OFF
<b>Mutual isolation between Input/Output/Supply</b>	1500 V AC / 1 Minute	<b>Reset lock (For front key reset)</b>	ON, OFF
<b>CONTROL INPUTS</b>		<b>Program lock</b>	ON, OFF
<b>No. of control inputs</b>	4	<b>OTHER</b>	
<b>Control input function configuration</b>	a) Fixed b) User configurable See Table 2, 3	<b>Keyboard</b>	Tactile, 3 keys
<b>Control input functions</b>		<b>Enclosure construction</b>	Plug-in (circuit removable without affecting terminal wiring)
<b>Assignment of control input functions to control inputs</b>	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 only (See Table 3)	<b>Dimensions (in mm)</b>	48(H) x 48(W) x 100(D)
<b>input</b>		<b>Mounting</b>	Panel mount
<b>Front panel reset</b>	Will have the same function as reset function selected for control input	<b>Panel cutout</b>	44 x 44 mm
<b>POWER SUPPLY</b>		<b>Operating ambient temperature</b>	0~50 °C
<b>Supply voltage</b>	85~265 V AC / DC, 50 Hz	* Available only when mode 0 is selected.	
<b>INDICATION</b>			
<b>Display</b>	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		
<b>MEMORY</b>	Non volatile, indefinite retention (for elapsed time)		
<b>PROGRAMMABLE PARAMETERS</b>			
<b>Setpoint 1</b>	0.01 to 9999		
<b>Setpoint 2</b>	0.01 to 9999		
<b>Timer Start (After timer start)</b>	Power ON, Control input 1(Start)		
<b>Control input 1</b>	Refer Table 3 (For order code 2289-01)		

**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

### OPERATING MODES

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

#### MODE 0 - POWER ON START

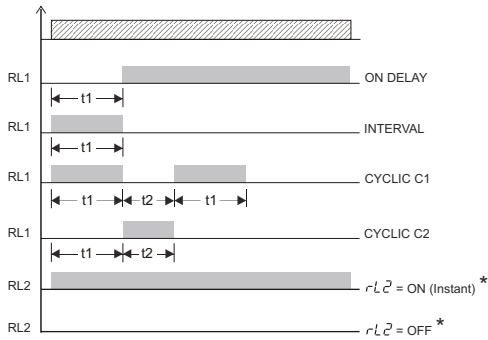


FIG 1

#### MODE 0 - START PULSE

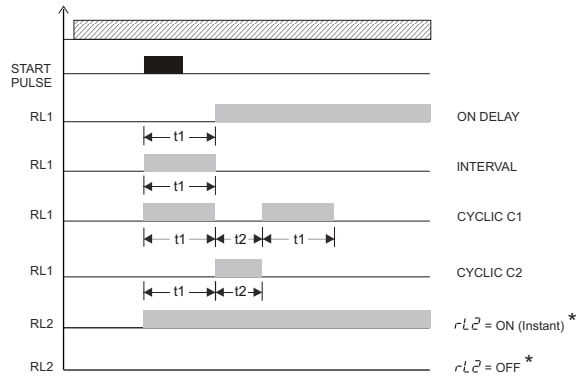


FIG 2

#### MODE 1 - POWER ON START

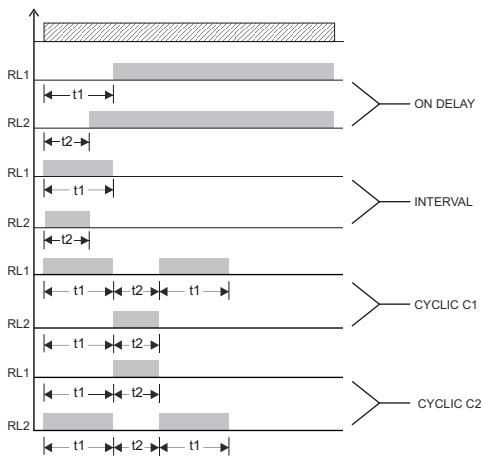


FIG 3

#### MODE 1 - START PULSE

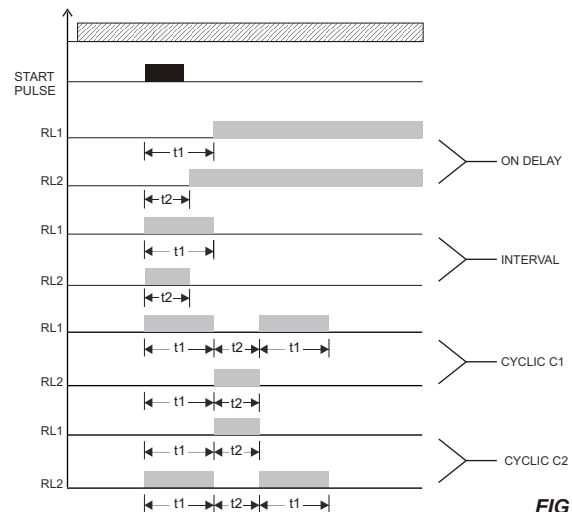


FIG 4

#### MODE 2 - POWER ON START

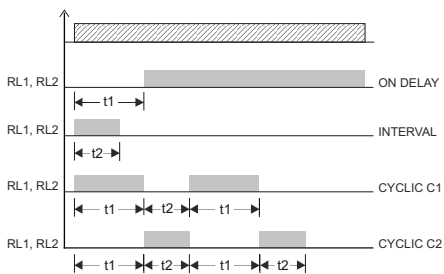


FIG 5

#### MODE 2 - START PULSE

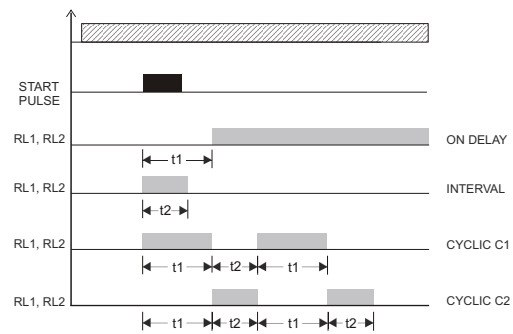


FIG 6

**TABLE 2 - FIXED CONTROL INPUTS (ORDER CODE : 2289-00)**

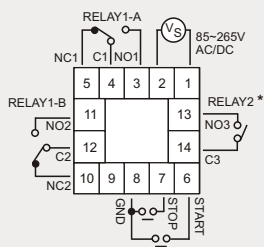
	CONTROL INPUT FUNCTION	DESCRIPTION		CONTROL INPUT FUNCTION	DESCRIPTION
1	Start	Start the timer	3	Gate	Freeze the timer as long as input is present & relay maintain status.
2	Reset	Timer is reset as long as input is present, timer starts when input is removed.	4	Stop	Stop the timer & relay turn OFF.

**TABLE 3 - CONFIGURABLE CONTROL INPUTS (ORDER CODE : 2289-01)**

	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

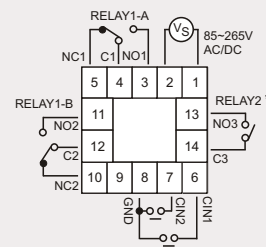


\* - RCT602/RCT702 ONLY

STK-349

ORDER CODE : 2289-00

### CONFIGURABLE INPUTS



\* - RCT602/RCT702 ONLY

STK-350

ORDER CODE : 2289-01

## ORDERING INFORMATION

ORDER CODE	
2289	A

A	Control Inputs	
	Fixed	Configurable
00	1	0
01	0	1

TIMERS, COUNTERS & RATE INDICATORS

RCT SERIES  
SELECTION TABLE

Model	Mounting	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	1	0	85~265 V AC	4	Yes	
Multifunction memory timer	RCT602	48x48x100	2	0	85~265 V AC	4+4	Yes	
Multifunction memory timer	RCT604	72x72x100	1	0	85~265 V AC OR 24 V DC	4	Yes	
Multifunction memory timer	RCT605	72x72x100	2	0	85~265 V AC OR 24 V DC	4+4	Yes	
Multifunction memory timer	RCT606	72x72x100	1	0	85~265 V AC OR 24 V DC	4	Yes	Pushwheel switch, 4-digit
Multifunction non-memory timer	RCT701	48x48x100	1	0	85~265 V AC	4	No	
Multifunction non-memory timer	RCT702	48x48x100	2	0	85~265 V AC	4+4	No	
Multifunction non-memory timer	RCT703	72x72x100	1	0	85~265 V AC OR 24 V DC	4	No	Pushwheel switch, 6-digit
Multifunction non-memory timer	RCT707	72x72x100	1	0	85~265 V AC OR 24 V DC	4	No	
Multifunction non-memory timer	RCT708	72x72x100	2	0	85~265 V AC OR 24 V DC	4+4	No	



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