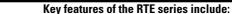
Timers

RTE Series



RTE Series — Analog Timers



- 16 time ranges and 4 timing functions
- ON-delay, interval, OFF-delay, one-shot
- Time delays up to 10 hours
- Space-saving package (1.63" x 1.42" x 3.03")
- High repeat accuracy of \pm 0.25%
- Power saving 2.2VA consumption
- ON and timing OUT LED indicators
- Standard 8- or 11-pin and 11-blade termination
- 2 form C delayed output contacts
- 10A Contact Rating



UL Listed File No. E67770



CSA Certified File No. LR83814



PRODUCT SERVICE

Cert. No. E9950913332316 (EMC, RTE) Cert. No. BL960813332355 (LVD, RTE)

Contact Configuration 2 Form C, DPDT (delay outputs) 120V AC, 50/60Hz 12V AC/DC 24V AC/DC **Input Voltage** 10A resist, at 240V AC, 30V DC 7A induct. at 240V AC, 30V DC **Contact Load Rating** 1/6 HP at 120V AC 1/3 HP at 240V AC ON-delay/interval AC: 1.6VA to 2.2VA DC: 0.9W to 1.2W **Power Consumption** OFF-delay/single-shot AC: 1.6VA to 2.2VA DC: 0.9W to 1.2W **Repeat Accuracy** \pm 0.25% maximum, 10ms Voltage Accuracy ± 1% maximum, ± 30ms Temperature Error ± 2% maximum, ± 30ms **Setting Error** ± 10% maximum **Reset Time** 0.1s maximum **Insulation Resistance** 100 $M\Omega$ minimum 1500V AC, 1 minute **Dielectric Strength** (except between contacts of same pole) **Vibration Resistance** 6N (approximate 6G) Shock Resistance 500N (approximate 50G)

Operating Temperature

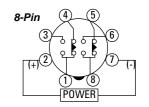
Operating Humidity

Internal Circuits

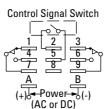
Blade Terminals

ON-Delay/Interval

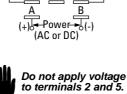
2 5 8 9 B Power (-)

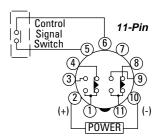


OFF-Delay/One-Shot



(AC or DC)







Do not apply voltage to terminals 5 and 6.

RTE Table of Contents

Part Number GuideG-9
Part Number ListG-9
RTE Timing DiagramsG-10
RTE AccessoriesG-11
Instructions: Setting TimerG-13
RTE DimensionsG-14

-20°C to +65°C

45 to 85% RH

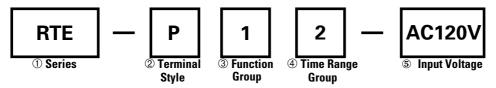
RTE Series





Part Numbering Guide

RTE series part numbers are composed of 5 part number codes. When ordering a RTE series part, select one code from each category. Example: RTE-P12-AC120V



Part Numbers: RTE Series

	Description	Part Number Code	Remarks
① Series	RTE series	RTE	For internal circuits, see previous page.
② Terminal Style	Pin	P	Select one only.
© Terminar Style	Blade	В	Select one only.
3 Function	ON-delay/interval	1	Each function group has two timing functions.
Group	OFF-delay/one-shot	2	See page G-10.
4 Time Range	0.1s to 10 minutes	1	Each time group has 8 selectable ranges. See page G-13.
Group	0.1 minutes to 10 hours	2	Lacif time group has a scientable ranges. See page 4 15.
	120V AC, 50/60Hz	AC120V	
5 Input Voltage	12V AC/DC	12V	
	24V AC/DC	24V	

Part Number List

Part Numbers

		Part	No.
Mode of Operation	Time Range	Pin	Blade
ON-Delay/Interval	0.1 seconds to 10 minutes	RTE-P11	RTE-B11
ON-Delay/Iliterval	0.1 minutes to 10 hours	RTE-P12	RTE-B12
OFF-Delay/One-Shot	0.1s to 10 minutes	RTE-P21	RTE-B21
of i belay, offe-offor	0.1 minutes to 10 hours	RTE-P22	RTE-B22



- 1. After basic part number, insert input voltage.
- 2. For schematics, see page G-8.
- 3. For timing diagrams, see page G-10.
- 4. All timers have multiple time ranges. For a list of ranges, see page G-13.
- 5. For socket and accessory information, see page G-11.

Timers

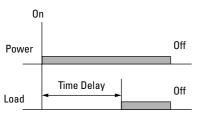
RTE Series

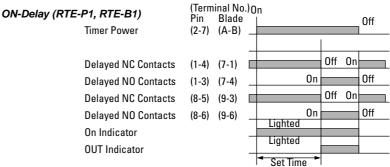


Timing Diagrams

ON-Delay (delay on make):

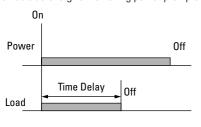
When power is applied to the input terminals, the time delay period begins. At the end of the time delay period, the output contacts transfer. Removing power prompts a reset.

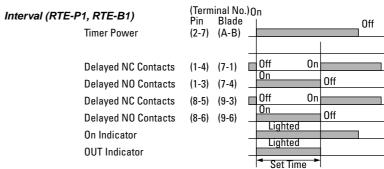




Interval:

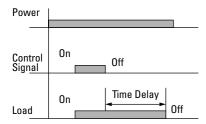
When power is applied to the input terminals, the output contacts instantly transfer and the time delay period begins. At the end of the time delay period, the output contacts de-energize. Removing power prompts a reset.





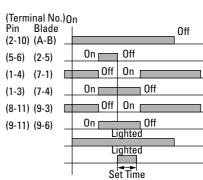
OFF-Delay (delay on break):

Power must be applied at all times to the input terminal. On closure of a normally open control signal switch, the output contacts transfer and remain in this position. When the control switch is reopened, the time delay period begins. At the end of the time delay period, the output contacts transfer back to original position. Reset occurs when the control signal switch is closed.



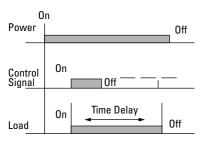
OFF-Delay (RTE-P2, RTE-B2)
Timer Power
Control Signal
Delayed NC Contacts
Delayed NO Contacts
Delayed NC Contacts
Delayed NO Contacts
Delayed NO Contacts
On Indicator

OUT Indicator



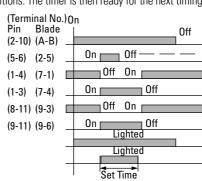
One-Shot:

Power must be applied at all times to the input terminals. On momentary or maintained closure of a normally open control signal switch, the output contacts transfer and the time delay period begins. At the end of the delay period, the output contacts transfer back to the original positions. The timer is then ready for the next timing cycle.



Single-Shot (RTE-P2, RTE-B2)
Timer Power
Control Signal
Delayed NC Contacts
Delayed NO Contacts
Delayed NC Contacts
Delayed NO Contacts
Delayed NO Contacts
On Indicator

OUT Indicator



RTE Series



idec **Timers**

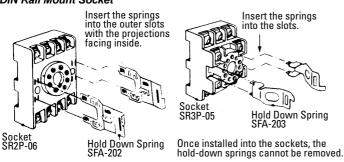
DIN Rail Mounting Accessories

Part Numbers: DIN Rail/Surface Mount Sockets and Hold-Down Springs

Part Numbers: DIN R	Applicable Hold-Down Springs				
Style	Appearance	Use with Timers	Part No.	Appearance	Part No.
8-Pin Screw Terminal (dual tier)		RTE-P11 RTE-P12	SR2P-05		
11-Pin Screw Terminal (dual tier)		RTE-P21 RTE-P22	SR3P-05		SFA-203
8-Pin Fingersafe Socket		RTE-P11 RTE-P12	SR2P-05C		31A-203
11-Pin FingerSafe Socket		RTE-P21 RTE-P22	SR3P-05C		
8-Pin Screw Terminal		RTE-P11 RTE-P12	SR2P-06		
11-Pin Screw Terminal		RTE-P21 RTE-P22	SR3P-06		SFA-202
11-Blade Screw Terminal		RTE-B11 RTE-B12 RTE-B21 RTE-B22	SR3B-05		
DIN Mounting Rail Length 1000mm		_	BNDN1000		

Installation of Hold-Down Springs

DIN Rail Mount Socket





Timers RTE Series



Panel Mounting Accessories

Part Numbers: Panel Mount Sockets and Hold-Down Springs

	Panel Mount So	Applicable Hold-Down	n Springs		
Style	Appearance	Use with Timers	Part No.	Appearance	Part No.
8-Pin Solder Terminal	08.00	RTE-P11 RTE-P12	SR2P-51		
11-Pin Solder Terminal	48 220	RTE-P21 RTE-P22	SR3P-51		SFA-402
11-Blade Solder Terminal	O CHARLES OF THE PARTY OF THE P	RTE-B11 RTE-B12 RTE-B21 RTE-B22	SR3B-51		

Part Numbers: Flush Panel Mount Adapter and Sockets that use an Adapter

Accessory	Description	Appearance	Use with	Part No.
Panel Mount Adapter	Adaptor for flush panel mounting RTE timers		All RTE timers	RTB-G01
	8-pin screw terminal	Tilled MARAM	RTE-P11 RTE-P12	SR6P-M08G
	11-pin screw terminal	(Shown: SR6P-M08G for Wiring Socket Adapter)	RTE-P21 RTE-P22	SR6P-M11G
Sockets for use with Panel Mount Adapter	8-pin solder terminal		RTE-P11 RTE-P12	SR6P-S08
	11-pin solder terminal		RTE-P21 RTE-P22	SR6P-S11



 $No\ hold\ down\ clips\ are\ available\ for\ flush\ panel\ mounting\ applications.$

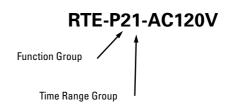


idec *Timers*

RTE Series

Instructions

Each RTE series electronic timer is available with two functions (operation modes) and eight time ranges. Start by determining which timing function and what time range suits your application.



Function Programming 1. Face Plate Removal

Bend the faceplate slightly and pop out the bottom edge (figure 1).

2. Timing Function Selection

Select the function by moving the DIP switch to the right or left position (Figure 2). Refer to the table below noting that the function group is the first digit in the part number. After the face plate is replaced, the DIP switch will be visible through the window if it is in the left position. (This is helpful for determining in which mode the timer is set, without removing the faceplate.)

	DIP Switch Position				
Function Group	Left Right				
1	Interval	ON-Delay			
2	One-Shot OFF-Delay				

Figure 1

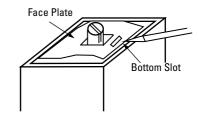
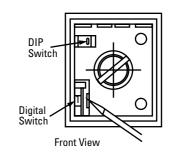


Figure 2



Time Range Programming

1. Time Range Selection

Select the appropriate timer range by rotating the digital switch (figure 2). Refer to the table below and note that the time range group is the second digit in the part number.

	Digital Switch Setting							
Time Range Group	0 (*8)	1** (9)	2	3	4	5	6	7
1	1s	3s	6s	10s	60s	30s	5 min.	10 min.
2	1 min.	3 min.	6 min.	10 min.	60 min.	30 min.	5 hrs.	10 hrs.

^{*}The time setting is the same when the digital switch is at 0 or 8.

2. Faceplate Configuration

Rotate the wheel in the faceplate to correspond with the time range selected in the previous step (figure 3).

Time Range Group		Face Plate Color			
1	3s	6s	30s	60s	Yellow
•	1s	10s	5 min.	10 min.	Pink
2	3 min.	6 min.	30 min.	60 min.	Violet
	1 min.	10 min.	5 hrs.	10 hrs.	Blue

3. Replacing Faceplate

Bend faceplate slightly and replace on the timer (figure 4). The digital switch setting should be visible though a window in the faceplate.

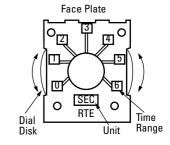
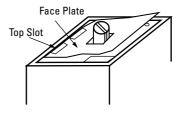


Figure 4

Figure 3



^{**} The time setting is the same when the digital switch is at 1 or 9.

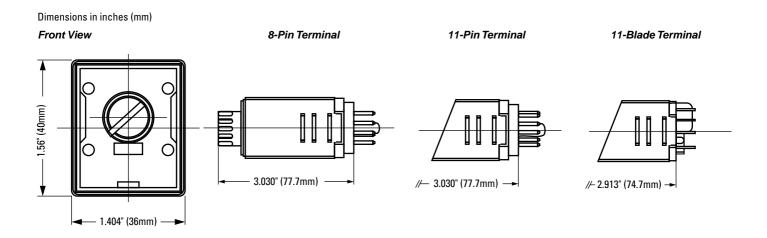


Timers

RTE Series

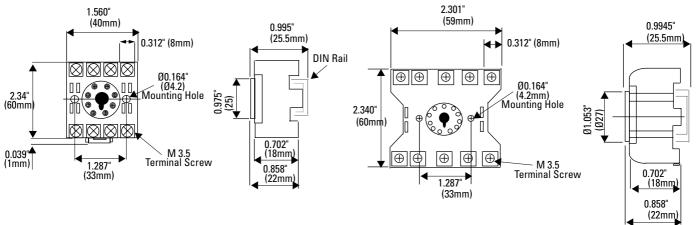


Dimensions



SR2P-06 Socket

SR3P-06 Socket



SR3B-05 Socket

BNDN1000 DIN Rail

