

Multi-function RTE Series Timers



Overview

The new RTE series timers offer the most popular timing functions in 2 models (Power and Signal Triggered) together with high power 10A contacts. In fact, they use our famous RH2 relay, so you can be sure of the reliability. Powered Triggered Models offer standard ON Delay, Interval and Cycle ON & OFF timing functions, while Signal Triggered Models offer 6 distinct timing functions. Both are tubular pin base or .187" quick connect terminals. All models mount into industry standard sockets or standard 45mm square panel cutouts using an optional adaptor.

Key Features

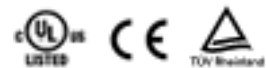
- 10A DPDT contacts
- Timing ranges up to 600 hours (20 time ranges per model)
- Available with either tubular pin or .187" solder/quick connect plug-in terminals
- Mounts in plug-in socket or with optional panel mount adaptor
- Power "ON" and output "OUT" indicating LEDs
- UL listed and CE marked

RTE Series

RTE-P1D12

[Simple and flexible multimode/multirange timers with 10A contacts]









Product Specifications

Status	Active
Timer Type	Power Triggered Start (Maintained Start Signal)
Operating Voltage	12V DC
Time Ranges	1 min, 10 min, 1 hrs, 10 hrs, 10 sec, 1 sec, 60 min, 30 min, 60 sec, 3 sec, 60 hrs, 30 hrs, 300 hrs, 3 hrs, 3 min, 30sec, 600 hrs, 100 hrs
Timing Functions	Cycle 1(power start, OFF first), Cycle 2 (power start, ON first), Interval 1 (power start), On Delay 1 (power start)
Time Adjustment	Analog Knob Adjustable
Pole Configuration	Delayed DPDT
Terminal Type	8 Pin
Contact Rating (Resistive @ 120V AC & 30VDC)	10A
Product Type	Multi Function Timers
Power Consumption	1.6W
Socket: Din Rail / Surface Mount	SR2P-05, SR2P-06
Socket: Din Rail / Surface Mount Fingersafe Version	SR2P-05C
Socket: Panel Mount (Socket)	SR2P-51
Socket: Panel Mount (Timer Face)	SR6P-M08G (Screw Terminal), SR6P-S08 (Solder Terminal)
Panel Mount Adaptor	RTB-G01
Distributor Class/Group	1
Product Series Name	RTE Series

Selection Guide

Selection Guide: RTE, GT3A, GT3D, and GT3F Series

Series Model	RTE	GT3A	GT3D	GT3F
Page	798	805	813	826
Appearance				
Mode of Operation	ON-delay Interval OFF-delay One-shot Cycle (ON first) Cycle (OFF first) Signal OFF delay Signal ON/OFF delay	ON-delay Interval OFF-delay One-shot Cycle (off first) Cycle (on first) Signal OFF delay Signal ON/OFF delay	ON-delay Interval One-shot One-shot ON delay Cycle Signal OFF delay Signal ON/OFF delay	True OFF-delay
Time Range	0.1 second to 600 hrs	0.1 second to 180 hrs	0.01 second to 99.9 hrs	0.1 to 600 seconds
Contact Configuration	DPDT	SPDT, DPDT	SPDT, DPDT	SPDT, DPDT
Repeat Accuracy	±0.25% maximum	±0.2% maximum	±0.3% maximum	±0.4% maximum
Contact Load Rating (resistive)	10A, 240V AC	SPDT: 3A, 250V AC DPDT: 5A, 240V AC	SPDT: 3A, 250V AC DPDT: 5A, 240V AC	5A, 250V AC
Available Operating Voltage	100-240V AC 12V DC 24V AC/DC	100 to 240V AC 12V DC 24V AC/DC	100 to 240V AC 24V AC/DC	100 to 240V AC 24V AC/DC
Approvals	UL Listed c-uL Listed TUV CE	UL Listed c-uL Listed CE	UL recognized TUV CSA CE	UL Listed c-uL Listed CE

- 1. For Timing Diagrams Overview, see page 794.
- 2. For all series specific instructions, accessories, and dimensions, see the individual series section.

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

RTE Series – Analog Timers

Key features of the RTE series include:

- 20 time ranges and 10 timing functions
- Time delays up to 600 hours
- Space-saving package
- High repeat accuracy of ± 0.2%
- ON and timing OUT LED indicators
- Standard 8- or 11-pin and 11-blade termination
- 2 form C delayed output contacts
- 10A Contact Rating



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



UL Listed
File No. E66043



General Specifications

Operation System		Solid state CMOS Circuit	
Operation Type		Multi-Mode	
Time Range		0.1sec to 600 hours	
Pollution Degree		2 (IE60664-1)	
Over voltage category		III (IE60664-1)	
Rated Operational Voltage	AF20	100-240V AC(50/60Hz)	
	AD24	24V AC(50/60Hz)/24V DC	
	D12	12V DC	
Voltage Tolerance	AF20	85-264V AC(50/60Hz)	
	AD24	20.4-26.4V AC(50/60Hz)/21.6-26.4V DC	
	D12	10.8-13.2V DC	
Input off Voltage		Rated Voltage x10% minimum	
Ambient Operating Temperature		-20 to +65°C (without freezing)	
Ambient Storage and Transport Temperature		-30 to +75°C (without freezing)	
Relative Humidity		35 to 85%RH (without condensation)	
Atmospheric Pressure		80kPa to 110kPa (Operating), 70kPa to 110kPa (Transport)	
Reset Time		100msec maximum	
Repeat Error		±0.2%, ±20msec*	
Voltage Error		±0.2%, ±20msec*	
Temperature Error		±0.5%, ±20msec*	
Setting Error		±10% maximum	
Insulation Resistance		100MΩ minimum (500V DC)	
Dielectric Strength		Between power and output terminals: 2000V AC, 1 minute	
		Between contacts of different poles: 2000V AC, 1 minute	
		Between contacts of the same pole:1000V AC, 1 minute	
Vibration Resistance		10 to 55Hz amplitude 0.5mm ² hours in each of 3 axes	
Shock Resistance		Operating extremes: 98m/sec ² (10G)	
		Damage limits: 490m/sec ² (50G)	
Degree of Protection		3 times in each of 3 axes	
		IP40 (enclosure) (IEC60529)	
Power Consumption (Approx.)	TYPE	RTE-P1, -B1	RTE-P2, -B2
		AF20	120V AC/60Hz 6.5VA 6.6VA
		240V AC/60Hz 11.6VA 11.6VA	
	24V AC 60Hz/DC	3.4VA/1.7W 3.5VA/1.7W	
D12	1.6W 1.6W		
Mounting Position		Free	
Dimensions	RTE-P1, P2	40Hx 36W x 77.9D mm	
	RTE-B1, B2	40Hx 36W x 74.9D mm	
Weight (Approx.)	RTE-P1	RTE-P2	RTE-B1, -B2
	87g	89g	85g

Contact Ratings

Contact Configuration	2 Form C, DPDT (Delay output)	
Allowable Voltage / Allowable Current	240V AC, 30V DC / 10A	
Maximum Permissible Operating Frequency	1800 cycles per hour	
Rated Load	Resistive	10A 240V AC, 30V DC
	Inductive	7A 240V AC, 30V DC
	Horse Power Rating	1/6 HP 120V AC, 1/3 HP 240V AC
Life	Electrical	500,000 op. minimum (Resistive)
	Mechanical	50,000,000 op. minimum



*For the value of the error against a preset time, whichever the largest. applies.

Switches & Pilot Lights

Display Lights

Relays & Sockets

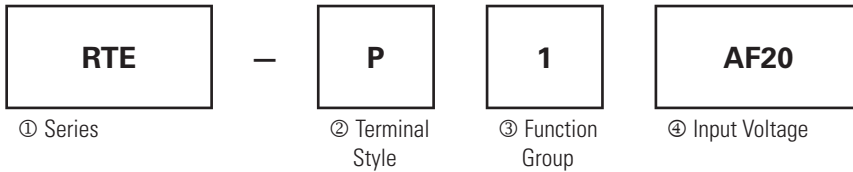
Timers

Terminal Blocks

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Part Numbering Guide

RTE series part numbers are composed of 4 part number codes. When ordering a RTE series part, select one code from each category.
Example: **RTE-P1AF20**



Part Numbers: RTE Series

	Description	Part Number Code	Remarks
① Series	RTE series	RTE	For internal circuits, see next page.
② Terminal Style	Pin	P	Select one only.
	Blade	B	
③ Function Group	ON-delay, interval, cycle OFF, cycle ON	1	Each function group has different timing functions.
	ON-delay, cycle OFF, cycle ON, signal ON/OFF delay, OFF-delay, one-shot	2	See page 794.
④ Input Voltage	100 to 240V AC(50/60Hz)	AF20	
	24V AC(50/60Hz)/24V DC	AD24	
	12V DC	D12	

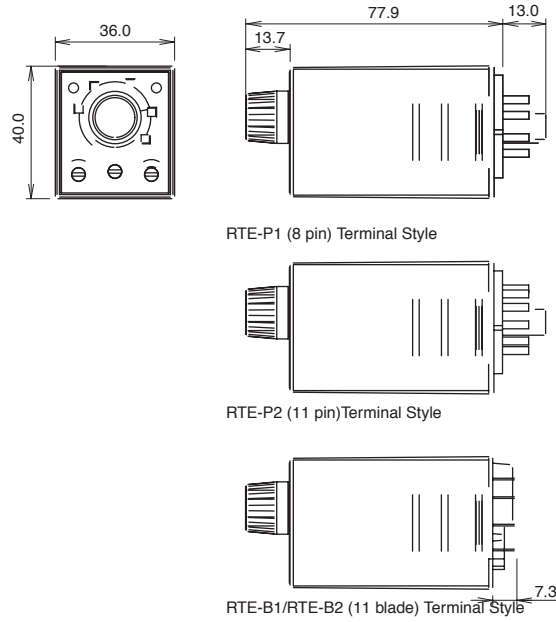
Part Numbers

Voltage	Power Triggered		Start Input Triggered	
	8-Pin	Blade	11-Pin	Blade
12V DC	RTE-P1D12	RTE-B1D12	RTE-P2D12	RTE-B2D12
24V AC/DC	RTE-P1AD24	RTE-B1AD24	RTE-P2AD24	RTE-B2AD24
100-240V AC	RTE-P1AF20	RTE-B1AF20	RTE-P2AF20	RTE-B2AF20

Time Range Determined by Time Range Selector and Dial Selector

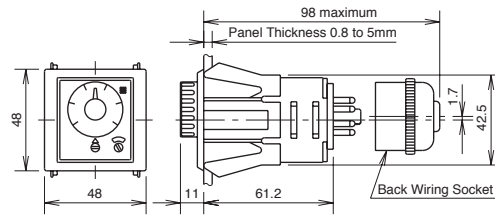
	Dial	0 - 1	0 - 3	0 - 10	0 - 30	0 - 60
Range	Second	0.1 sec - 1 sec	0.1 sec - 3 sec	0.2 sec - 10 sec	0.6 sec - 30 sec	1.2 sec - 60 sec
	Minute	1.2 sec - 1 min	3.6 sec - 3 min	12 sec - 10 min	36 sec - 30 min	1.2 min - 60 min
	Hour	1.2 min - 1 hr	3.6 min - 3 hr	12 min - 10 hr	36 min - 30 hr	1.2 hr - 60 hr
	10 Hours	12 min - 10 hr	36 min - 30 hr	2 hr - 100 hr	6 hr - 300 hr	12 hr - 600 hr

Dimensions

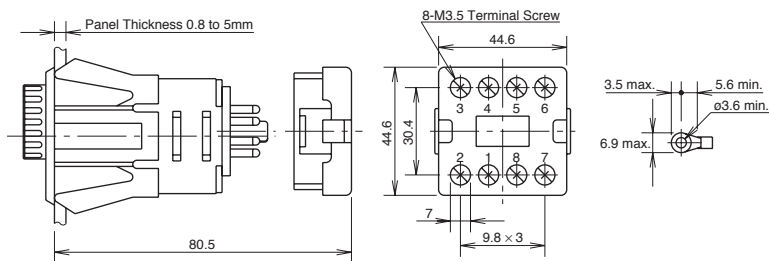


Panel Mount Adapter

RTE Timer, 8-Pin and 11-Pin with SR6P-S08 or SR6P-S11



RTE Timer, 8-Pin with SR6P-M08G



RTE Timer, 11-Pin with SR6P-M11G

