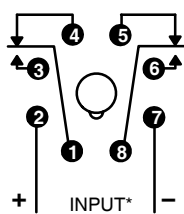


## Features

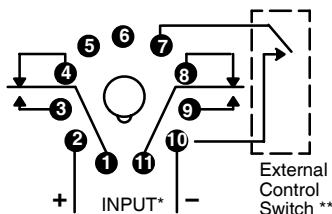
- 8 Programmable Timing Modes (4 on 8-Pin Type)
- 0.1 sec to 100 min. Programmable Timing Range
- Universal (24–240VAC/VDC)
- 10A Output Relay with DPDT Contacts
- DIP Switch Selection of Timing Mode and Range
- Knob and Dial Scale for Setting Actual Delay Time



DPDT, 2 Form "C"  
(8-Pin Type)



DPDT, 2 Form "C"  
(11-Pin Type)



\* Note input polarity for DC operation. For most reliable operation on AC, connect high side to "+" and low side to "-".

\*\* **IMPORTANT:** A dry circuit switch is recommended. A "dry circuit" switch is one rated to reliably switch currents of less than 50mA. Use of a switch rated for other than dry circuit may result in failure of the time delay relay to function properly.

AC or DC OPERATED							
NTE Type No.	No. of Pins	Timing Adj Range	Contact Arr.	Nom Vltg AC/DC	Nom Power	Max. Contact Cur. @ 30VDC 277VAC	Diag No.
R64-11AD10-4	8	0.1 Sec. to 100 Min.	DPDT	24 to 240	1W@24V 5W@120V 10W@240V	10A	D58
R64-11AD10-8	11	0.1 Sec. to 100 Min.	DPDT	24 to 240	1W@24V 5W@120V 10W@240V	10A	D58

**Note:** R64-11AD10-X where "X" indicates the number of timing functions.

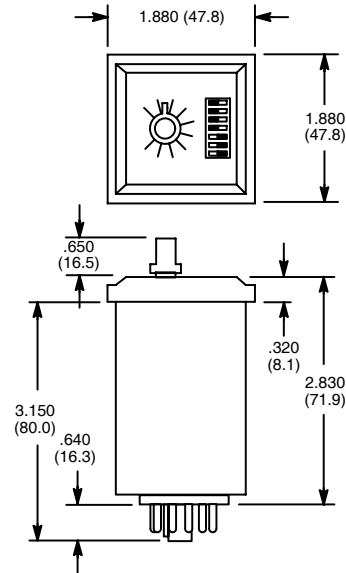
ACCESSORIES		
MOUNTING STYLES	DESCRIPTION	NTE TYPE NO.
SURFACE MOUNT	8-PIN OCTAL	R95-101
	11-PIN OCTAL	R95-104
PANEL MOUNT	8-PIN OCTAL	R95-118
	11-PIN OCTAL	R95-119
DIN RAIL MOUNT	8-PIN OCTAL	R95-113
	8-PIN OCTAL	R95-181
	11-PIN OCTAL	R95-114
	11-PIN OCTAL	R95-182

# R64 Series



## Programmable, DPDT, 10 Amp, AC or DC, Multifunctional Time Delay Relay.

### D58



## Electrical Specifications

### Contact

**Rating:** 10 Amps @ 30VDC or 277VAC, resistive;  
1/2 HP @ 250VAC; 1/3 HP @ 120VAC  
**Life:** 100,000 operations at minimum rated load  
**Mechanical Life:** 10,000,000 operations

### Input

**Nominal Input Voltage:** 24 – 240V ±15%, 50/60Hz AC or DC  
**Nominal Power:** See Chart

### Timing

**Timing Ranges:** 0.1 to 1.0 / 1.0 to 10 / 10 to 100 sec.;  
0.1 to 1.0 / 1.0 to 10 / 10 to 100 min.

**Timing Adjustments:** Knob adjustable within selected range

**Tolerance:** -0, +20% of max. specified at high end timing range;  
min. specified, or less, at low end

**Delta Time (for AC units add ±1 cycle 60Hz):** ± 10%

**Repeatability (for AC units add ±1 cycle 60Hz):** ± 2% – including first cycle of operation

**Reset Time (power interruption):** 45mS, typ; 60 mS, max

**Minimum Pulse Width, Control:** 50mS

**Recycle Time:** 45mS, typ; 60mS, max

### Protection

**Transient:** yes

**Dielectric Strength**

**Between Open Contacts:** 1000V<sub>rms</sub>, 60Hz

**Between All Other Conductors:** 1500V<sub>rms</sub>, 60Hz

### Environmental Characteristics

**Operating:** -10°C to +55°C

**Storage:** -20°C to +70°C

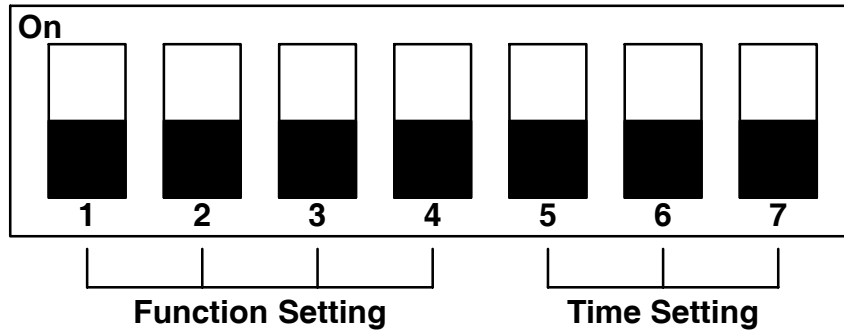
**Humidity:** 85% relative humidity, non-condensing

### Weight

**Std:** 4.3 oz (122 grams) approx.

# R64 Series (Continued)

## DIP Switch Layout



**Note:** The solid blocks in the DIP switch diagrams indicate the switch positions. For example, all the switches are “off” in the diagram above.

### Timing Function Switch Settings

DIP Switch Setting	Function	DIP Switch Setting	Function
	Delay On Operate		Delay On Release
	Interval On (Input Controller)		Inverted Delay On Release
	Recycler (Initially Off)		Interval On (Switch Controlled)
	Recycler (Initially On)		Interval Off

### Timing Range Switch Settings

DIP Switch Setting	Timing Range	DIP Switch Setting	Timing Range
	0.1 – 1.0 Seconds		0.1 – 1.0 Minutes
	1.0 – 10 Seconds		1.0 – 10 Minutes
	10 – 100 Seconds		10 – 100 Minutes

## Timing Function Descriptions

### Delay On Operate

**8-Pin Type:** Output relay is energized at the completion of the time interval which is initiated by the application of input voltage.

**11-Pin Type:** Same as above except, closing the control switch after time out will de-energize the relay and reset the timer. Opening the switch will initiate another time interval. Closing the control switch during timing will reset the time to zero and inhibit timing until opened again.

### Interval On (Input Controlled)

**8-Pin Type:** Output relay is energized by the application of input voltage. The time interval is initiated at the same time with the relay de-energize at the completion of the time interval.

**11-Pin Type:** Same as above. Closing the control switch will have no effect on timing or the state of the relay.

### Recycler (Initially Off)

**8-Pin Type:** Output relay will begin cycling at a 50% duty cycle with the application of input power. The initial state of the relay will be de-energized.

**11-Pin Type:** Same as above except, closing the control switch will de-energize the relay and inhibit timing until it is once again opened, at which time it will start from zero time.

### Recycler (Initially On)

**8-Pin Type:** Output relay will begin cycling at a 50% duty cycle with the application of input power. The initial state of the relay will be energized.

**11-Pin Type:** Same as above except, closing the control switch will energize the relay and inhibit timing until it is once again opened, at which time it will start from zero time.

### Delay On Release

**11-Pin Only:** Output relay is energized by the closing of the control switch with the input applied or the application of input voltage with the control switch already closed. The time interval will be initiated by the opening of the control switch with the relay de-energized at the completion of the time interval. Closing the control switch after time out will energize the relay in preparation for another time interval. Closing the switch during timing will reset the time to zero and inhibit timing until opened again.

### Inverted Delay On Release

**8-Pin Type:** No Time Delay – Instantly On

**11-Pin Type:** Output relay will energize with the application of the input voltage when the control switch is open. Control switch closing will de-energize the relay. A timing interval will be initiated with the opening of the control switch, at the completion of which the relay will energize. With the control switch closed upon application of input voltage, the relay will wait until the control switch is opened to initiate a time interval after which the relay will energize. Closing of the control switch during timing will reset the time to zero and inhibit timing until opened again.

### Interval On (Switch Controlled)

**11-Pin Only:** Output relay is energized by the application of input voltage with the control switch closed or the closing of the control switch with the input applied. Immediately upon either, timing is initiated with the relay de-energized at the completion of the time interval. Closing the control switch after time out will reset the timer, energize the relay, and initiate another time interval. Closing the control switch during timing will have no effect on timing or the state of the relay.

### Interval Off

**11-Pin Only:** Output relay will initially be energized with the application of the input voltage when the control switch is open. Control switch closing will de-energize the relay and start a time interval. At the completion of the time interval, the relay will energize. With the control switch closed upon application of input voltage, a time interval will be initiated after which the relay will energize. Closing of the control switch during timing will have no effect on timing or the state of the relay.