

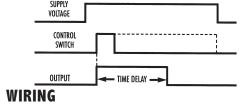
Single-Shot Relay Output



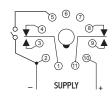


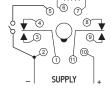
Voltage is continuously applied to the input. An external isolated switch

controls the timer. When closed (momentary or maintained), the relay energizes and the delay period begins. Upon completion of the delay period, the relay de-energizes.

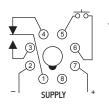


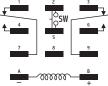






OPERATION





DPDT 11 Pin Plug-in RB-11/PF113A

DPDT 11 Pin Plug-in External Resistor Adjustable

SPDT Octal Plug-in RB-08/PF083A

DPDT Blade Plug-in 70-463-1

SPECIFICATIONS

TIMING RANGES

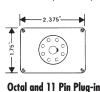
Virtually unlimited. See page 77 for standard ranges available.

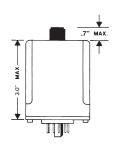
Tang	es available.						
OUTPUT RATING	DPDT, 10 A @ 250 VAC or 24 VDC, resistive; 211 VA @ 120 VAC, inductive						
TIMING TOLERANCES	Minimum Settin Maximum Settin						
REPEATABILIT	Y 1% maximum;	no first cycle effect					
RESET TIMES	Before Time Out 100 mSEC After Time Out 50 mSEC						
RECYCLE TIME	40 mSEC						
SUPPLY VOLTAGE		24 or 120 VAC or VDC, 50/60 Hz; ±10% (TUE Series available in 120 Volts only)					
FALSE TRANSF	FER No						
REVERSE POLARITY PROTECTED	Yes						
POWER CONSUMPTION	٠.	proximately)					
DUTY CYCLE	Continuous						
TEMPERATURE RATING	Operate Storage	32° to 131°F (0° to +55°C) -49° to 185°F (-45° to +85°C					
LIFE EXPECTA	NCY Mechanical	(minimum)					
	Electrical	100,000 operations @ rated load					

For UL/CSA Approved version specify TUE Series of On-Delay Relay Output Timers.

4.5 oz.







MODEL NUMBER

TIODEE HOMBE	•							
MODEL NUMBER	T		E		Α			
SERIES								
Relay Output		D						
Relay Output with CSA		U*						
SUPPLY VOLTAGE								
24 VAC or DC				24				
110/120 VAC or DC				120				
TYPE OF OPERATION								
Knob Adjustable						K		
Lock Nut Adjustable						L		
Fixed						F		
External Resistor Adjust	able					R**		
ENCLOSURE STYLE								
8-pin or 11-pin Round Plug-in								Α
Blade Plug-in							В	
DELAY PERIOD								
See page 77 for standar	rd rai	nges	availa	able				

Example: TUE-120-AKA-900—Single Shot, 120 Volts AC or DC, knob adjustable from 9 to 900 seconds, 8-pin octal plug-in. UL recognized and CSA approved.

Notes:* The TUE series is offered in 120 Volts, octal plug-in (figure 23) style A enclosure only with optional types of operation "K", "L",or "F" CSA certified: File #LR40123

**TDE's using the "R" option are not UL Recognized. The "R" option is NOT offered in the TUE series or the style B enclosure.

WEIGHT

STANDARD DELAY RANGES AVAILABLE

The chart below shows the standard adjustable time delay ranges available. The part number suffix equals the maximum adjustable delay period of the timer. No letters following the suffix number indicates the delay period in seconds; an M indicates minutes; and an H indicates hours.

STANDARD DELAY RANGE CHART

JIANUANU L	LEAT MANUE	CHAIL
PART NUMBER Suffix	MINIMUM SETTING	MAXIMUM SETTING
010	0.1 seconds	10 seconds
030	0.3 seconds	30 seconds
060	0.6 seconds	60 seconds
100	1 second	100 seconds
200	2 seconds	200 seconds
300	3 seconds	300 seconds
600	6 seconds	600 seconds
900	9 seconds	900 seconds
30M	18 seconds	30 minutes
60M	36 seconds	60 minutes
90M	54 seconds	90 minutes
2H	1.2 Minutes	2 hours
4H	2.4 Minutes	4 hours
8H	4.8 Minutes	8 hours
12H	7.2 Minutes	12 hours
16H	9.6 Minutes	16 hours
20H	12 Minutes	20 hours
24H	14.4 Minutes	24 hours

Longer delays available upon request. Consult Factory

EXTERNAL RESISTANCE SELECTION

On models specified as having the external resistor adjustability feature, the delay period is set by placing resistance across designated pins or terminals. One meg ohm resistance provides the maximum delay on all models. The minimum delay is obtained by jumping the terminals together.

The resistor or potentiometer chosen should be a 1/4 watt or larger.

To determine the resistor value required for a specific time delay, use the following formula:

$$R_{ext} = (T_{des}/T_{max})x 1000$$

R_{ext} = Resistance value required to obtain T_{des} (in K ohms)

 T_{des} = Desired time delay

 $T_{max} = Maximum delay period of the timer$

Example: Model TDC-120-ARC-300; find the external resistance value required for a 240 second delay:

$$R_{ext} = \frac{240}{300} \text{ x } 1000 = 800 \text{ K ohms}$$

"FIXED" DELAY OPTION

Most ATC Diversified timers are available with the delay period factory preset ("fixed") for some specified duration. When this option is ordered, the part number should have an "F" in the Type of Operation designation: and the last digits should specify the desired time delay in seconds (S), minutes (M), or hours (H).

Example: TDC 120-AFA-30M—delay-on-operate, 120 Volts AC or DC, 8-pin octal plug-in package with a 30 minute fixed delay.

■ OFF/ON DELAY TIMERS

Included in ATC Diversified's broad line of timers are six (6) models that feature independent OFF/ON delay adjustments. They are TDF, TDH, TDI, TSF, and TSH. Notice in the ordering information section on each of their respective pages the timing range is specified by a three (3) digit suffix. This indicates that both the OFF and ON delay periods have the same timing ranges. Example: TDF-120-ALA-300: Both OFF and ON delay periods are independently adjustable from 3 to 300 seconds.

In the event that two (2) separate delay ranges would be required, the part number is modified to add a slash(/) followed by three (3) more digits. Since the OFF delay (TI) is first in all models, it is specified first in the part number. Example: TDF-120-ALA-12H/30M: the OFF delay is adjustable from 7.2 minutes to 12 hours and the ON delay is adjustable from 18 seconds to 30 minutes.

NOTE: Combinations of various "types of operation" are available: fixed/adjustable, knob/lock nut, etc. Consult factory.

■ MODEL NUMBER

MODEL NUMBER	Т							
TIME DELAY								
SERIES								
Relay Output		D,U						
Solid State Output		S						
MODE OF OPERATION								
SUPPLY VOLTAGE								
24 Volts				24				
120 Volts	120 Volts			120				
240 Volts				240				
TYPE OF VOLTAGE								
AC					Α			
DC					D			
TYPE OF OPERATION								
Knob Adjustment						K		
Lock Nut Adjustment						L		
Fixed (Factory Preset)						F		
External Resistor Adjustable						R		
ENCLOSURE STYLE								
8 or 11-pin Round Plug-in							Α	
Blade Plug-in						В		
Potted Cube							С	
DELAY PERIOD								
See Standard Delay Range Chai			rt					

NOTE: Not all time delays are available with each option shown above. The specific options for each timer type are described on their respective pages.