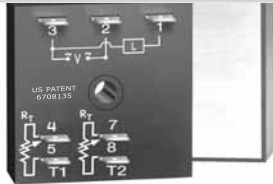


# Recycling (Pulse Generator)

## PTHA Series

### Power Timing Module

Discontinued Product

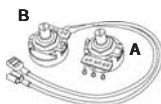


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- Independently Adjustable ON Times & OFF Times
- Controls Loads up to 20 A, 200 A Inrush
- Delays from 0.1 s ... 1000 s in 4 Ranges
- +/-0.5% Repeat Accuracy
- +/-5% Factory Calibration
- Totally Solid State & Encapsulated

Approvals:

#### Accessories



External adjust potentiometer  
P/Ns:  
**P1004-95** (fig. A)  
**P1004-95-X** (fig. B)



Female quick connect  
P/Ns:  
**P1015-64** (AWG 14/16)  
**P1015-13** (AWG 10/12)



Quick connect to screw adaptor  
P/N: **P1015-18**



Versa-knob  
P/N: **P0700-7**

See accessory pages for specifications.

#### Description

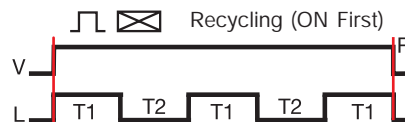
The PTHA Series can be used for a variety of applications from chemical metering to temperature regulating, and energy management. The independent external adjustment of both the ON and the OFF time provides accurate control over a wide time delay range. When mounted on a metal surface, it can be used to drive solenoids, contactors, relays, or lamps up to 20 Amps steady, 200 Amps inrush.

#### Operation

Upon application of input voltage, the output energizes and the T1 ON time begins. At the end of the ON time, the output de-energizes and the T2 OFF time begins. At the end of the OFF time, the output energizes and the cycle repeats as long as input voltage is applied.

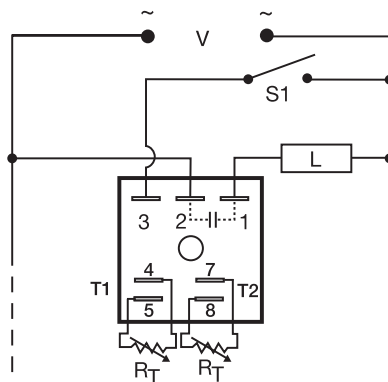
**Reset:** Removing input voltage resets the output and time delays, and returns the sequence to the T1 ON time.

#### Function



V = Voltage L = Load  
R = Reset T1 = ON Time T2 = OFF Time

#### Connection



Dashed lines are internal connections.

$R_T$  = External Adjustments  
S1 = Optional Low Current Initiate Switch  
T1 = ON Time T2 = OFF Time

#### Ordering Table

PTHA Series	X Input	X Time Delay	X Output Rating
	-2 - 24 V AC	-0 - 0.1 ... 10 s	-A - 6
	-4 - 120 V AC	-1 - 1 ... 100 s	-B - 10
	-6 - 230 V AC	-2 - 10 ... 1000 s	-C - 20
		-3 - 0.1 ... 10 m	

Example P/N: **PTHA40B**, **PTHA22A**

# Recycling (Pulse Generator)

## PTHA Series

### Power Timing Module

#### Technical Data

<b>Time Delay</b>				
Range	0.1 s ... 1000 s in 4 adjustable ranges			
Repeat Accuracy	+/- 0.5% or 20 ms, whichever is greater			
Tolerance (Factory Calibration)	≤ +/- 5%			
Reset Time	≤ 150 ms			
Time Delay vs. Temperature & Voltage	≤ +/-10%			
<b>Input</b>				
Voltage	24, 120, or 230 V AC			
Tolerance	+/-20%			
Line Frequency	50 ... 60 Hz			
Power Consumption	≤ 2 VA			
<b>Output</b>				
Type	Solid state			
Maximum Load Current	<b>Output</b>	<b>Steady State</b>	<b>Inrush*</b>	*Must be bolted to a metal surface using the included heat sink compound. The maximum mounting surface temperature is 90°C. Inrush: Non-repetitive for 16 ms.
	A	6 A	60 A	
	B	10 A	100 A	
	C	20 A	200 A	
Minimum Load Current	100 mA			
Voltage Drop	≅ 2.5 V at rated current			
OFF State Leakage Current	≅ 5 mA at 230 V AC			
<b>Protection</b>				
Circuitry	Encapsulated			
Dielectric Breakdown	≥ 2000 V RMS terminals to mounting surface			
Insulation Resistance	≥ 100 MΩ			
<b>Mechanical</b>				
Mounting *	Surface mount with one #10 (M5 x 0.8) screw			
Package	2 x 2 x 1.51 in. (50.8 x 50.8 x 38.4 mm)			
Termination	0.25 in. (6.35 mm) male quick connect terminals			
<b>Environmental</b>				
Operating Temperature	-40°C ... +60°C			
Storage Temperature	-40°C ... +85°C			
Humidity	95% relative, non-condensing			
Weight	≅ 3.9 oz (111 g)			

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Desired Time Delay*				
Seconds			Minutes	RT Kilohms
0	1	2	3	
0.1	1	10	0.1	0
1	10	100	1	10
2	20	200	2	20
3	30	300	3	30
4	40	400	4	40
5	50	500	5	50
6	60	600	6	60
7	70	700	7	70
8	80	800	8	80
9	90	900	9	90
10	100	1000	10	100

\* When selecting an external RT add at least 20% for tolerance of unit and the RT.

