

Recycling (Pulse Generator) PTHA Series Power Timing Module

Discontinued Product



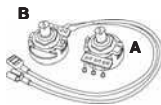
10 YEAR WARRANTY

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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: cRU_{us} RU CE

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

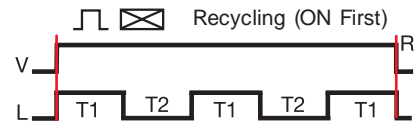
The PTHA Series can be used for a variety of applications from chemical metering to temperature regulating, and energy management. The independent external adjustment of both the ON and the OFF time provides accurate control over a wide time delay range. When mounted on a metal surface, it can be used 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.

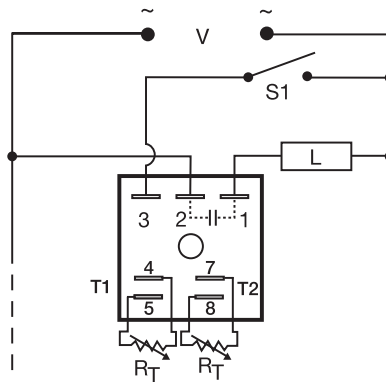
Reset: Removing input voltage resets the output and time delays, and returns the sequence to the T1 ON time.

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

Time Delay													
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%												
Input													
Voltage	24, 120, or 230 V AC												
Tolerance	+/-20%												
Line Frequency	50 ... 60 Hz												
Power Consumption	≤ 2 VA												
Output													
Type	Solid state												
Maximum Load Current	<table border="1" style="display: inline-table; vertical-align: top;"> <thead> <tr> <th>Output</th> <th>Steady State</th> <th>Inrush*</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>6 A</td> <td>60 A</td> </tr> <tr> <td>B</td> <td>10 A</td> <td>100 A</td> </tr> <tr> <td>C</td> <td>20 A</td> <td>200 A</td> </tr> </tbody> </table>	Output	Steady State	Inrush*	A	6 A	60 A	B	10 A	100 A	C	20 A	200 A
Output	Steady State	Inrush*											
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												
Protection													
Circuitry	Encapsulated												
Dielectric Breakdown	≥ 2000 V RMS terminals to mounting surface												
Insulation Resistance	≥ 100 MΩ												
Mechanical													
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												
Environmental													
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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RT Selection Chart				
Desired Time Delay*				RT
Seconds		Minutes		
0	1	2	3	Kilohms
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.

