

ERD3425A



Description

Econo-Timers are a combination of digital electronics and a reliable electromechanical relay. DPDT relay output for relay logic circuits, and isolation of input to output voltages. Cost effective for OEM applications, such as duty cycling, drying, washing, signaling, and flashing.

Operation (Recycling - ON Time First)

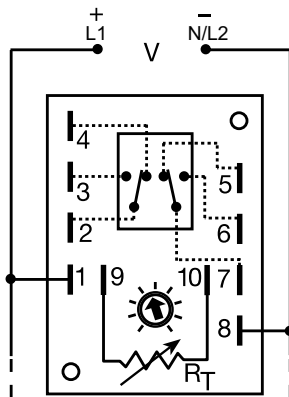
Upon application of input voltage, the output relay energizes and the T1 ON time begins. At the end of the ON time, the output de-energizes and the T2 OFF time begins. At the end of the OFF time, the output relay energizes and the cycle repeats as long as input voltage is applied.

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

Features & Benefits

FEATURES	BENEFITS
Digital integrated circuitry	Repeat Accuracy +/- 0.5%, Factory calibration +/- 10%
Isolated, 10A, DPDT output contacts	Allows control of loads for AC or DC voltages
Encapsulated	Protects against shock, vibration, and humidity

Wiring Diagram



A knob, or terminals 9 & 10 are only included on adjustable units.

Relay contacts are isolated.

R_T is used when external adjustment is ordered.

Accessories



P1004-16, P1004-16-X Versa-Pot

Panel mountable, industrial potentiometer recommended for remote time delay adjustment.



P0700-7 Versa-Knob

Designed for 0.25 in. (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.



P1015-64 (AWG 14/16)

Female Quick Connect

These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P1015-18 Quick Connect to Screw Adapter

Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.

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Selection Guides

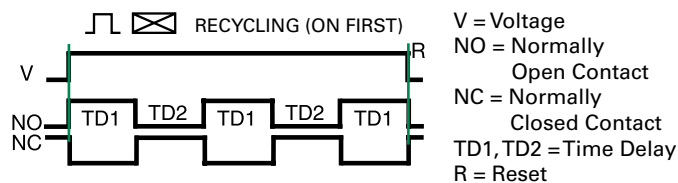
RT Selection Chart							RT Megohm
Desired Time Delay*							
Seconds							
1	2	3	4	5	6		
0.1	0.1	0.1	0.2	0.3	0.6		0.0
0.19	0.6	1	1.7	3	6		0.1
0.28	1.1	2	3.2	6	12		0.2
0.37	1.6	3	4.7	9	18		0.3
0.46	2.1	4	6.2	12	24		0.4
0.55	2.6	5	7.7	15	30		0.5
0.64	3.0	6	9.2	18	36		0.6
0.73	3.5	7	10.7	21	42		0.7
0.82	4.0	8	12.2	24	48		0.8
0.91	4.5	9	13.7	27	54		0.9
1.0	5.0	10	15	30	60		1.0

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

RT Selection Chart						RT Megohm
Desired Time Delay*						
Minutes						
7	8	9	10	11		
0.1	0.1	0.2	1	10		0.0
0.6	1	1.7	10	50		0.1
1.1	2	3.2	20	100		0.2
1.6	3	4.7	30	150		0.3
2.1	4	6.2	40	200		0.4
2.6	5	7.7	50	250		0.5
3.0	6	9.2	60	300		0.6
3.5	7	10.7	70	350		0.7
4.0	8	12.2	80	400		0.8
4.5	9	13.7	90	450		0.9
5.0	10	15	100	500		1.0

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

Function Diagram



Specifications

Time Delay

Type

Digital integrated circuitry
 0.1s - 500m in 11 adjustable ranges
 0.1s - 1000m fixed

Range

Adjustment

Knob, external adjust, or fixed

Repeat Accuracy

±0.5%

Tolerance

(Factory Calibration)

≤ ±10%

Reset Time

≤ 150ms

Time Delay vs Temp.

& Voltage

≤ ±2%

Input

Voltage

12, 24, or 120VDC; 24, 120, or 230VAC

Tolerance

12VDC & 24VDC/AC

-15% - 20%

120VAC/DC & 230VAC

-20% - 10%

AC Line Frequency

50/60 Hz

Output

Type

Isolated relay contacts

Form

DPDT

Rating

10A resistive @ 120/240VAC & 28VDC;
 1/3 hp @ 120/240VAC

Life

Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

Protection

Isolation Voltage

≥ 1500V RMS input to output

Insulation Resistance

≥ 100 MΩ

Polarity

DC units are reverse polarity protected

Mechanical

Mounting

Surface mount with two #6 (M3.5 x 0.6) screws

Dimensions

H 88.9 mm (3.5"); **W** 63.5 mm (2.5");

D 43.2 mm (1.7")

Termination

0.25 in. (6.35 mm) male quick connect terminals

Environmental

Operating/Storage

-40° to 65°C / -40° to 85°C

Temperature

Weight

≈ 5.7 oz (162 g)