

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)

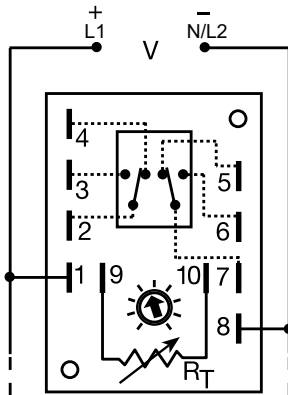
Upon application of input voltage, the output relay energizes and the T1 ON time begins. At the end of the ON time, the output de-energizes and the T2 OFF time begins. At the end of the OFF time, the output relay energizes and the cycle repeats as long as input voltage is applied.

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

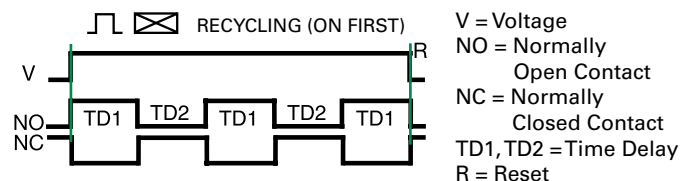
R _T Selection Chart						
Desired Time Delay*						R _T
Seconds						
1	2	3	4	5	6	Megohm
0.1	0.1	0.1	0.2	0.3	0.6	0.0
0.19	0.6	1	1.7	3	6	0.1
0.28	1.1	2	3.2	6	12	0.2
0.37	1.6	3	4.7	9	18	0.3
0.46	2.1	4	6.2	12	24	0.4
0.55	2.6	5	7.7	15	30	0.5
0.64	3.0	6	9.2	18	36	0.6
0.73	3.5	7	10.7	21	42	0.7
0.82	4.0	8	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 R_T add at least 20% for tolerance of unit and the R_T.

R _T Selection Chart					
Desired Time Delay*					R _T
Minutes					
7	8	9	10	11	Megohm
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 R_T add at least 20% for tolerance of unit and the R_T.

Function Diagram



Specifications

Time Delay

Type

Range

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

Adjustment

Repeat Accuracy

Tolerance

(Factory Calibration)

Reset Time

Time Delay vs Temp.

& Voltage

Input

Voltage

Tolerance

12VDC & 24VDC/AC

120VAC/DC & 230VAC

AC Line Frequency

Output

Type

Form

Rating

Life

Protection

Isolation Voltage

Insulation Resistance

Polarity

Mechanical

Mounting

Dimensions

Termination

Environmental

Operating/Storage

Temperature

Weight

Knob, external adjust, or fixed
±0.5%

≤ ±10%

≤ 150ms

≤ ±2%

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

-15% - 20%

-20% - 10%

50/60 Hz

Isolated relay contacts

DPDT

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

1/3 hp @ 120/240VAC

Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

≥ 1500V RMS input to output

≥ 100 MΩ

DC units are reverse polarity protected

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

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

D 43.2 mm (1.7")

0.25 in. (6.35 mm) male quick connect terminals

-40° to 65°C / -40° to 85°C

≈ 5.7 oz (162 g)