

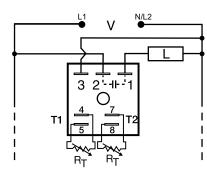
# ESD52233

# Delay-on-Make/Interval





# Wiring Diagram



V = Voltage L = Load T1 = Delay-on-Make time

T2 = Interval delay time

R<sub>T</sub> is the external adjustment component.

Note: Terminals 4, 5 and/or 7, 8 are included

when external adjustment

is ordered. A knob is included when onboard adjust is ordered.

# Description

The ESD5 Series is an accurate, solid-state, delayed interval timer. It offers a 1A steady, 10A inrush output and is available with adjustable or fixed time delays of 0.1 seconds to 1000 minutes in six ranges. Input voltages of 24, 120, or 230VAC are available. Encapsulation offers protection against shock and vibration. Adjustment options are factory fixed, onboard or externally adjustable. The repeat accuracy, under stable conditions, is 0.1%. The factory calibration of the time delay is  $\pm 5\%$ .

### Operation (Delayed Interval)

Upon application of input voltage, the T1 delay-on-make time delay begins and the output remains de-energized. At the end of this delay, the output energizes and the T2 interval delay begins. At the end of the interval delay period, the output de-energizes.

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

# Features & Benefits

FEATURES	BENEFITS
Compact, low cost design measuring 2 in. (50.8mm) square	Allows flexibility for OEM applications and reduces component and labor costs
Microcontroller based	Repeat Accuracy + / - 0.1%, Factory calibration + / - 5%
1A steady, 10A inrush solid-state output	Provides 100 million operations in typical conditions.
Totally solid state and encapsulated	No moving parts to arc and wear out over time and encapsulated to protect against shock, vibration, and humidity

### Accessories



### P1004-95, P1004-95-X Versa-Pot

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



**P1023-6 Mounting bracket** The 90° orientation of mounting slots makes

installation/removal of modules quick and easy.



### **P0700-7 Versa-Knob** Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.

P1015-64 Female C These 0.2

### 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.

**C103PM (AL) DIN Rail** 35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



### **P1023-20 DIN Rail Adapter** Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.

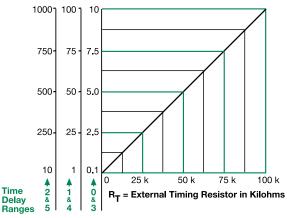




# **External Resistance vs. Time Delay**

In Secs. or Mins.

ESD52233

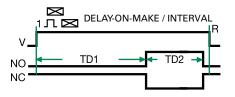


This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the  $R_T$  terminals; as the resistance increases the tie delay increases.

When selecting an external R<sub>T</sub>, add the tolerances of the timer and the R<sub>T</sub> for the full time range adjustment.

 $\textbf{Examples:}\ 1\ to\ 50\ S\ adjustable\ time\ delay,\ select\ time\ delay\ range\ 1\ and\ a\ 50\ K\ ohn\ R_T.$  For 1 to 100 S use a 100 K ohn  $R_T.$ 

### **Function Diagram**



V = Voltage NO = Normally Open Contact NC = Normally **Closed Contact** TD1,TD2 = Time Delay R = Reset

## **Specifications**

**Time Delay** Range **Repeat Accuracy** Tolerance (Factory Calibration) **Reset Time** Time Delay vs Temp. & Voltage Input Voltage Tolerance **AC Line Frequency Power Consumption** Output Type Rating **OFF State Leakage Current** Voltage Drop Protection Circuitry **Dielectric Breakdown Insulation Resistance** Mechanical Mounting Dimensions

### Termination

**Environmental Operating/Storage** Temperature Humidity Weight

#### 0.1s - 1000m in 6 adjustable ranges or fixed ±0.1% or 20ms, whichever is greater

 $\leq \pm 5\%$ ≤ 150ms

 $\leq \pm 2\%$ 24VAC ±20% 50/60 Hz  $\leq 2VA$ 

Solid state 1A steady state, 10A inrush at 60°C ≅ 5mA@230VAC ≃ 2.5V @ 1A

Encapsulated ≥ 2000V RMS terminals to mounting surface  $\geq 100 \text{ M}\Omega$ 

Surface mount with one #10 (M5 x 0.8) screw **H** 50.8 mm (2"); **W** 50.8 mm (2"); **D** 30.7 mm (1.21") 0.25 in. (6.35 mm) male quick connect terminals

-40° to 75°C / -40° to 85°C 95% relative, non-condensing ≈ 2.4 oz (68g)

单击下面可查看定价,库存,交付和生命周期等信息

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