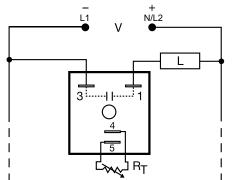
KSD1 SERIES

Delay-on-MakeTimer





Wiring Diagram



Load may be connected to terminal 3 or 1.

 $R_{\scriptscriptstyle T}$ is used when external adjustment is ordered.

Description

The KSD1 Series features two-terminal, series-connection with the load. The KSD1 Series is an ideal choice for delay-on-make timing applications. This series is designed for general purpose commercial and industrial applications where a small, cost effective, reliable solid-state timer is required. The factory calibration for fixed time delays is within 5% of the target time delay. The repeat accuracy, under stable conditions, is 0.5% of the selected time delay. This series is designed for popular AC and DC voltages. Time delays of 0.1 seconds to 1000 minutes are available in 6 ranges. The output is rated 1A steady and 10A inrush. The modules are totally solid state and encapsulated to protect the electronic circuitry.

Operation (Delay-on-Make)

Upon application of input voltage, the time delay begins. The output is de-energized before and during the time delay. At the end of the time delay, the output energizes and remains energized until input voltage is removed.

Reset: Removing input voltage resets the time delay and output.

Features & Benefits

FEATURES	BENEFITS	
Microcontroller based	Repeat Accuracy + / - 0.5%, + / -5% time delay accuracy	
Compact, low cost design	Allows flexiblility for OEM applications	
1A Steady solid-state output, 10A inrush	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 (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.

Ordering Information

3			
MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY
KSD11120S	12VDC	Fixed	20s
KSD1123	12VDC	External	0.1 - 10m
KSD1230	24VAC	Onboard	0.1 - 10s
KSD1320	24VDC	External	0.1 - 10s
KSD1412S	120VAC	Fixed	2s
KSD14130S	120VAC	Fixed	30s
KSD1420	120VAC	External	0.1 - 10s
KSD16130S	230VAC	Fixed	30s

If you don't find the part you need, call us for a custom product 800-843-8848



KSD1 SERIES

Accessories



C103PM (AL) DIN Rail

35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

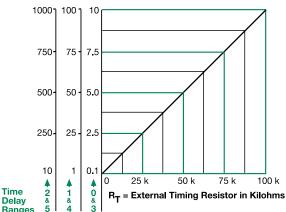


P1023-20 DIN Rail Adapter

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.



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

When selecting an external R_{T} add the tolerances of the timer and the R_{T} for the full time range adjustment.

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 ohm R_T .

Specifications

Time Delay

Range 0.1s - 1000m in 6 adjustable ranges or fixed **Repeat Accuracy** ±0.5% or 20ms, whichever is greater

Tolerance

(Factory Calibration) $\leq \pm 5\%$ ≤ 150ms **Recycle Time**

Time Delay vs. Temperature

& Voltage $\leq \pm 10\%$

Input

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

Tolerance AC Line Frequency 50/60 Hz

Output

Form

Type Solid state

NO, open during timing

Maximum Load Current 1A steady state, 10A inrush at 60°C

Minimum Holding Current $\leq 40mA$

≅ 7mA @ 230VAC **OFF State Leakage Current Voltage Drop** $\approx 2.5 \text{V} @ 1 \text{A}$

Protection

Circuitry Encapsulated

≥ 2000V RMS terminals to mounting surface Dielectric Breakdown **Insulation Resistance** $\geq 100 \text{ M}\Omega$

Polarity DC units are reverse polarity protected

Mechanical

Mounting Surface mount with one #10 (M5 x 0.8) screw

Dimensions H 50.8 mm (2"); **W** 50.8 mm (2");

D 30.7 mm (1.21")

Termination 0.25 in. (6.35 mm) male quick connect

terminals

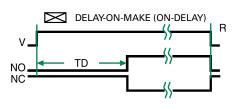
Environmental

Operating/Storage

Temperature -40° to 60° C / -40° to 85° C Humidity 95% relative, non-condensing

Weight $\approx 2.4 \text{ oz } (68 \text{ g})$

Function Diagram



V = Voltage NO = Normally

Open Contact NC = Normally

Closed Contact

TD = Time Delay R = Reset

-⟨ - Undefined Time

单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)