KSD2 SERIES

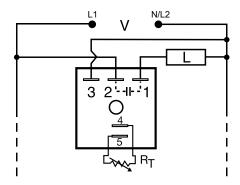
IntervalTimer



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Wiring Diagram



 R_{τ} is used when external adjustment is ordered.

Description

The KSD2 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 input voltages of 24, 120 or 230VAC. 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. An excellent choice for most OEM pulse shaping, maximum run time, and other process control applications.

Operation (Interval)

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

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





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

	MODEL	INPUT VOLTAGE VAC	ADJUSTMENT	TIME DELAY
	KSD2221	24	External	1 - 100s
	KSD2413M	120	Fixed	3m
	KSD2420	120	External	0.1 - 10s

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









Accessories



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

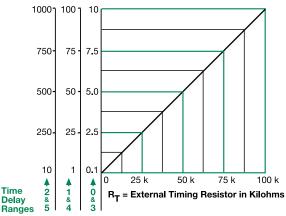
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



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.

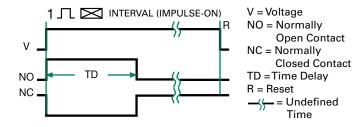


This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the R_T terminals; as the resistance increases the tie delay increases

When selecting an external ${\sf R}_T$ add the tolerances of the timer and the ${\sf R}_T$ 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.

Function Diagram



Specifications

Time Delay Range **Repeat Accuracy** Tolerance (Factory Calibration) **Reset Time** Time Delay vs. Temperature & Voltage Input Voltage Tolerance **AC Line Frequency Power Consumption** Output Туре Form **Maximum Load Current 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 ±0.5% or 20ms, whichever is greater

 $\leq \pm 10\%$ 24, 120, or 230VAC ±20% 50/60 Hz $\leq 2VA$ Solid state

 $\leq \pm 5\%$

≤ 150ms

NO, closed during timing 1A steady state, 10A inrush at 60°C ≃ 5mA @ 230VAC ≅ 2.5V @ 1A

Encapsulated ≥ 2000V RMS terminals to mounting surface ≥ 100 MΩ

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 60°C / -40° to 85°C 95% relative, non-condensing ≈ 2.4 oz (68 g)

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)