

KSPD SERIES

Solid State Timer



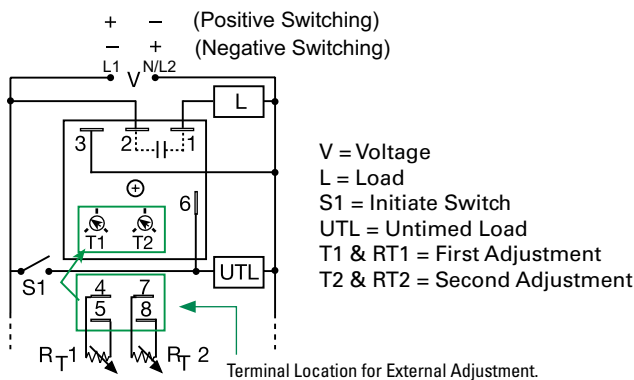
Description

The KSPD Series is a factory programmed module available with 1 of 12 standard dual functions. The time delays can be factory fixed, externally or onboard adjustable, or a combination of fixed and adjustable. The 1A steady, 10A inrush rated solid-state output provides 100 million operations, typical. Its microcontroller timing circuit provides excellent repeat accuracy and stability. Encapsulation protects against shock, vibration, and humidity. The KSPD Series is a cost effective approach for OEM applications that require small size and long life.

Features & Benefits

FEATURES	BENEFITS
Microcontroller based	Repeat Accuracy + / - 0.5%
Compact design	Allows flexibility for OEM applications
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

Wiring Diagram



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.
	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.

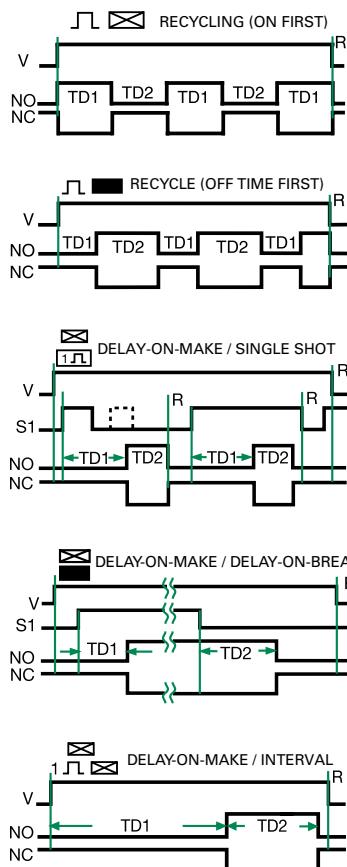
Ordering Information

MODEL	INPUT	ADJUSTMENT 1	TIME DELAY 1	ADJUSTMENT 2	TIME DELAY 2	FUNCTION
KSPDA2222RXE	24 to 240VAC	Onboard	1-100s	Onboard	1-100s	Recycling/On Time First
KSPDP110M18SRXE	12 to 120VDC positive switching	Fixed	10 mins	Fixed	8s	Recycling/On Time First

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Function Diagrams



Specifications

Time Delay

Type

Range

Microcontroller circuitry
0.1s - 1000h in 9 adjustable ranges or fixed (to 999)
±0.5% or 20ms, whichever is greater

Repeat Accuracy

Tolerance

(Factory Calibration)

Reset Time

Initiate Time

Time Delay vs Temp.

& Voltage

≤ ±2%
≤ 150ms
≤ 20ms; ≤ 1500 operations per minute
≤ ±2%

Input

Voltage

Tolerance

AC Line Frequency/DC Ripple

Power Consumption

12 to 120VDC; 24 to 240VAC
≤ ±15%
50/60Hz / ≤ 10%
AC ≤ 2VA; DC ≤ 1W

Output

Type

Rating

Voltage Drop

OFF State Leakage Current

Solid-state output
1A steady, 10A inrush for 16ms
AC ≅ 2.5V @ 1A; DC ≅ 1V @ 1A
AC ≅ 5mA @ 230VAC; DC ≅ 1mA

Protection

Circuitry

Dielectric Breakdown

Insulation Resistance

Polarity

Encapsulated
≥ 2000V rms terminals to mounting surface
≥ 100 MΩ
DC units are reverse polarity protected

Mechanical

Mounting

Dimensions

Surface mt. 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 connects

Termination

Environmental

Operating/Storage

Temperature

Humidity

Weight

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