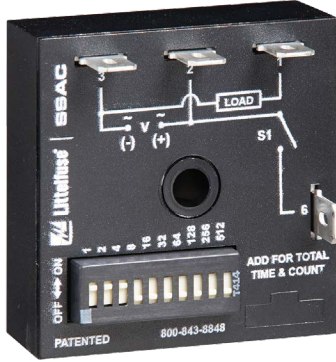
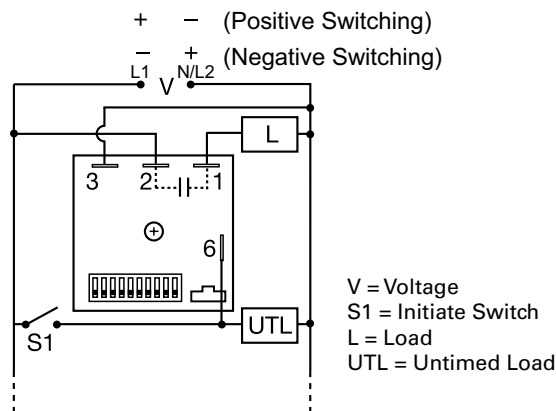


KSPU SERIES



Wiring Diagram



Ordering Information

MODEL	INPUT VOLTAGE	TIME DELAY/COUNTS	FUNCTION
KSPUA2I	24 to 240VAC	1 - 1023s	Interval
KSPUA8C	24 to 240VAC	1 - 1023 counts (binary) with pulsed output	Counter with pulsed output

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Description

The KSPU Series is a factory programmed module available in any 1 of 14 standard functions. The KSPU offers a single adjustable timer or counter function. Switch adjustment allows accurate selection of the time delay or number of counts the first time and every time. 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 KSPU Series is a cost effective approach for OEM applications that require small size, solid state reliability, and accurate switch adjustment.

Features & Benefits

FEATURES	BENEFITS
Microcontroller based	Repeat Accuracy + / - 0.1%
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

Accessories



P1015-64 (AWG 14/16), P1015-14 (AWG 18/22) Female Quick Connect

These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



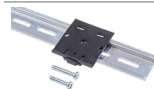
P1015-18 Quick Connect to Screw Adapter

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.

KSPU SERIES

Specifications

Time Delay

Range*

0.1 - 102.3s, m or h in 0.1s, m or h increments

1 - 1023s, m or h in 1s, m or h increments

1 - 63s or m in 1s or m increments

±0.1% or 20 ms, whichever is greater

≤ ±1% or 20 ms, whichever is greater

≤ 150ms

≤ 20ms

Repeat Accuracy

Setting Accuracy

Reset Time

Initiate Time

Time Delay vs. Temperature

& Voltage

≤ ±2%

Input

Voltage/Tolerance

24 to 240VAC, 12 to 120VDC/≤ ±15%

AC Line Frequency/DC Ripple

50/60 Hz/≤ 10%

Power Consumption

AC ≤ 2VA; DC ≤ 1W

Output

Type

Solid state

Form

NO, SPST-NO

Rating

1A steady state, 10A inrush for 16ms

Voltage Drop

AC ≅ 2.5V @ 1A; DC ≅ 1V @ 1A

Off State Leakage Current

AC ≅ 5mA @ 240VAC; DC ≅ 1 mA

Counter Output

Output pulse width: 300ms ±20%

Time Delay/Counts Variable 7 & 8

Protection

Circuitry

Encapsulated

Dielectric Breakdown

≥ 2000V RMS terminals to mounting surface

Insulation Resistance

≥ 100 MΩ

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")

0.25 in. (6.35 mm) male quick connect terminals

Termination

Environmental

Operating/Storage

-40° to 60°C / -40° to 85°C

Temperature

Humidity

95% relative, non-condensing

Weight

≅ 2.4 oz (68 g)

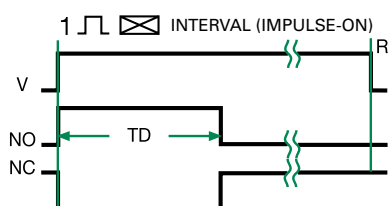
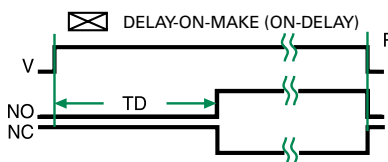
*For CE approved applications, power must be removed from the unit when a switch position is changed.

Adjustment Switch Operation

Adjustment Switch Operation			
TIME DELAY		COUNTER	
0.1...102.3	1...1023	1...165	1...63
OFF ▶ ON	OFF ▶ ON	OFF ▶ ON	OFF ▶ ON
0.1	1	1	1
0.2	2	2	2
0.4	4	3	4
0.8	8	4	8
1.6	16	5	16
3.2	32	10	32
6.4	64	20	M *
12.8	128	30	1
25.6	256	40	2
51.2	512	50	4
6.3	544	57 counts	44 s Delay 2 counts to Start

* for selecting time in minutes or seconds

Function Diagrams



V = Voltage
NO = Normally Open Contact
NC = Normally Closed Contact
TD = Time Delay
R = Reset
— = Undefined Time

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