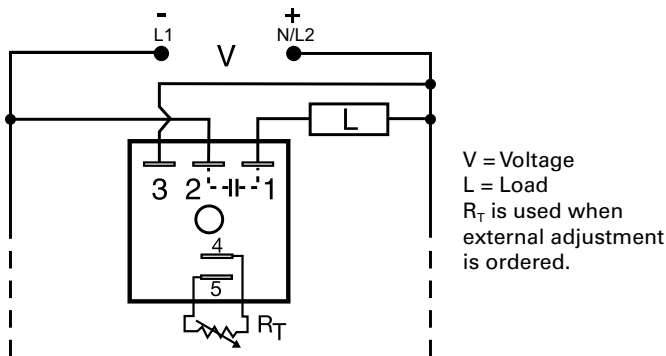


KSD3 SERIES

Recycling Flasher



Wiring Diagram



Description

The KSD3 Series Digi-Timer is a cost effective approach for ON/OFF recycling applications. The on time is equal to the off time. An adjustment of the R_T will change the time delays of both on and off times. 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 (Recycling Flasher - ON Time First)

Upon application of input voltage, the output energizes and the T1, ON time begins. At the end of the ON time, the output de-energizes and the T2 OFF time begins. At the end of the OFF time, the output energizes and the cycle repeats as long as input voltage is applied.

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

Operation (Recycling Flasher - OFF Time First)

Upon application of input voltage, the T2 OFF time begins. At the end of the OFF time, the T1 ON time begins and the load energizes. At the end of the ON time the load de-energizes, and the cycle repeats until input voltage is removed.

Reset: Removing input voltage resets the output and time delays and the sequence to the OFF time.

Features & Benefits

FEATURES	BENEFITS
Microcontroller based	Repeat Accuracy +/- 0.5%, +/- 5% time delay accuracy
Compact, low cost design	Allows flexibility 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

Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY	OPERATING SEQUENCE
KSD3120A	12VDC	External	0.1 - 10s	ON time first
KSD3310.1SA	24VDC	Fixed	0.1s	ON time first
KSD3415MA	120VAC	Fixed	5m	ON time first
KSD3432A	120VAC	Onboard	10 - 1000s	ON time first

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

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.

KSD3 SERIES

Accessories



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.

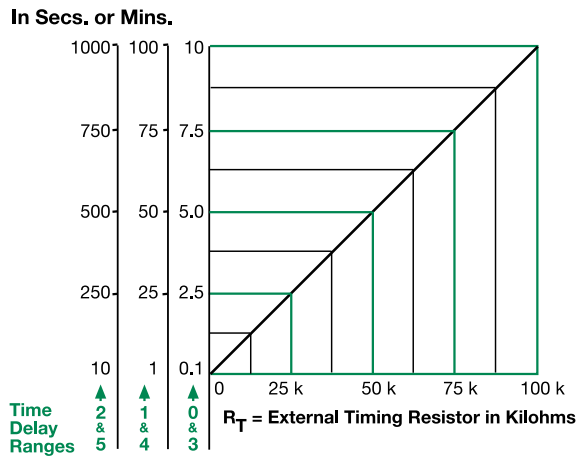


C103PM (AL) DIN Rail
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



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

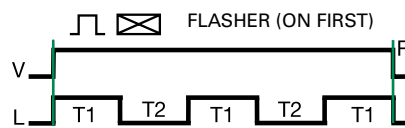


This chart applies to externally adjustable part numbers.
The time delay is adjustable over the time delay range selected by varying the resistance across the R_T terminals; as the resistance increases the time delay increases.
When selecting an external R_T , add the tolerances of the timer and the 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 ohm R_T . For 1 to 100 S use a 100 K ohm R_T .

Specifications

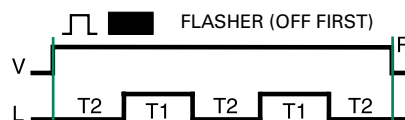
Time Delay Range	0.1s - 1000m in 6 adjustable ranges or fixed
Repeat Accuracy Tolerance (Factory Calibration)	$\pm 0.5\%$ or 20ms, whichever is greater
Reset Time	$\leq \pm 5\%$
Time Delay vs. Temperature & Voltage	$\leq 150\text{ms}$
Input Voltage	$\leq \pm 10\%$
Tolerance	24 or 120VAC; 12 or 24VDC
AC Line Frequency	$\pm 20\%$
Power Consumption	50/60 Hz
Output Type	AC $\leq 2\text{VA}$; DC $\leq 1\text{W}$
Maximum Load Current	Solid state
OFF State Leakage Current	1A steady state, 10A inrush at 60°C
Voltage Drop	AC $\approx 5\text{mA}$ @ 230VAC; DC $\approx 1\text{mA}$
DC Operation	AC $\approx 2.5\text{V}$ @ 1A; DC $\approx 1\text{V}$ @ 1A
Protection	Negative switching only
Circuitry	Encapsulated
Dielectric Breakdown	$\geq 2000\text{V RMS}$ terminals to mounting surface
Insulation Resistance	$\geq 100\text{M}\Omega$
Polarity	DC units are reverse polarity protected
Mechanical Mounting Dimensions	Surface mount with one #10 (M5 x 0.8) screw
Termination	H 50.8 mm (2"); W 50.8 mm (2"); D 30.7 mm (1.21")
Environmental	0.25 in. (6.35 mm) male quick connect terminals
Operating/Storage Temperature	-40° to 60°C / -40° to 85°C
Humidity	95% relative, non-condensing
Weight	$\approx 2.4\text{ oz}$ (68 g)

Function Diagrams



ON time plus OFF time equals one complete flash.

V = Voltage
L = Load
T1 = ONTime
T2 = OFFTime
T1 \approx T2
R = Reset



单击下面可查看定价，库存，交付和生命周期等信息

[>>Littelfuse\(美国力特\)](#)