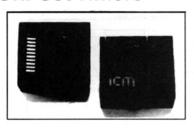


Uni-Set Timers



Uni-Set timers are a highly versatile group of digital timers featuring universal AC voltage operation and easy-to-set time delays covering .1–10,230 seconds. Available with either switch-settable or knob-adjustable time delays, Uni-Set timers utilize digital C/MOS circuitry to ensure high-precision timing over broad voltage ranges. Six Standard Modes of Operation are available: Delay on Make, Delay on Break, Single Shot, Repeat Cycle, Interval Delay and 3-Wire Delay on Make.

SPECIFICATIONS

Time Delay

Type: Switch-settable or knob-adjustable

3 Ranges:
1-102.3 sec. (.1 sec. increments)
1-1,023 sec. (1 sec. increments) 19,023 sec. (10 sec. increments)
10–10,230 sec. (10 sec. increments)
Repeat accuracy: 0.5% under fixed conditions
Time Delay vs. Temperature: ± 1% max
Time Delay vs. Voltage: ± 1%

Reset & Initiate Time:

Reset time: During & after timing: 150 ms typical
Initiate Time: 32 ms
Reset during timing without false output

SPECIFICATIONS

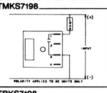
MOUNTING

Mounting: Surface mount with #8 or #10 screw.
Hole center: .25"
Termination: .25" male quick-connect terminals
Weight: 6 ounces

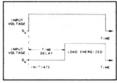
Output
Type: Solid State, non-isolated
Form: SPST, normally open
Ratings: Ratings: max—1 amp RMS steady state max—1 amp RMS steady state
min—20 milliamps
inrush—10 amps
Life: 100,000,000 operations
Voltage Drop: 2.5 V at 1 amp
Polarity: DC applications switch negative or

positive voltage.

CONNECTION DIA.



TIME DIAGRAMS



MODE OF OPERATION

☐ Transient: ± 1500 V for 100 ms
☐ Polarity: DC units are reverse bias protected

☐ Operating Temperature: -50°C to +85°C
☐ Storage Temperature: -65°C to +85°C

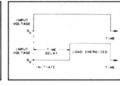
□ Solid State reliability.
□ Universal AC voltage operation: 19–288 VAC.
□ Time delay ranges cover .1–10,230 seconds.
□ Switch-settable or knob-adjustable delays.
□ One model replaces many in field.

Input
☐ Voltage: 19-288 VAC RMS DC units polarity independent
Frequency: 50/60 Hz
Power consumption: .5 watt max

Protection

Environmental

ORDERING INFORMATION (Part No./Time Range in seconds)

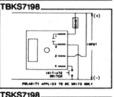


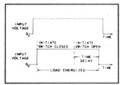
Delay On Make.

The TMKS time delay period initiates when power is applied to the input terminals. At the end of the time delay period the load is energized as long as power is applied. Reset is accomplished by removal of power during or after the time delay period. The timer may be reset during the time delay period. period wit no false output.
Note: The Series TMKS7198 features universal AC and DC

voltage operation (19-288 VAC/VDC).

Switch-Settable TMKS7198DD7A—.1-102.3 TMKS7198DD8A—1-1,023 TMKS7198DD9A-10-10,230 Knob-Adjustable: TMKS00C2X10—.1-10 TMKS00C2X100—1-100 TMKS00C2X1000—10-1000 TMKS00C2X1000—10-10,000

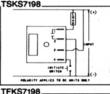


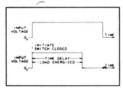


Delay On Break

Delay On Break
Power must be applied to the input terminals of the delay on break before and during the time delay period. When the initiate contact closes the load energizes. The load remains energized as long as the initiate contact is closed. The time delay period begins when the initiate contact opens. At the end of the time delay period the load remains energized and the time delay is reset to zero. Removal of input power during the time delay period turns off the load and resets the time delay period to zero.

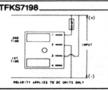
Switch-Settable TBKS7198DD7A--.1-102.3 TBKS7198DD8A-1-1.023 TBKS7198DD9A--10-10,230 TBKS00C2X10—1-10
TBKS00C2X10—1-10
TBKS00C2X100—1-100
TBKS00C2X1000—10-1000
TBKS00C2X1000—10-000

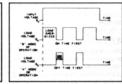




Power must be applied to the input terminals of TSKS before and during the delay period. When the initiate contact closes, the output contacts transfer immediately and the time delay begins. The output contacts return to their original position when the delay period is complete. Note: The initiate contact closure can be momentary or maintained. To reset TSKS during the time delay period, remove the input power.

Switch-Settable: TSKS7198DD7A—.1-102.3 TSKS7198DD8A—1-1,023 TSKS7198DD9A—10-10,230 TSKS7198U9A—10-10,230 Knob-Adjustable: TSKS00C2X10—.1-10 TSKS00C2X100—1-100 TSKS00C2X1000—10-1000 TSKS00C2X1000—100-10,000

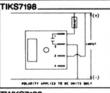


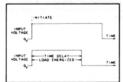


Interval Delay

Repeat Cycle
Upon application of power to the input terminals the load is immediately energized and the on time delay initiated. At the end of the on delay period the load is deenergized and the off delay initiated. At the end of the off delay period the load is again energized and the only off cycle repeats. Removal of power during any portion of the cycle will result in deenergization of the delay functions. Note: When ordering, please specify desired time delay sequence. A = OFF/ON (as in part numbers featured at right) or B = ON/OFF.

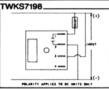
Switch-Settable: TFKS7198DAD7A—.1-102.3 TFKS7198DAD8A—1-1,023 TFKS7198DAD9A-10-10,230 Knob-Adjustable: TFKS00C2XA10—.1-10
TFKS00C2XA10—.1-10
TFKS00C2XA100—1-100
TFKS00C2XA1000—10-1000
TFKS00C2XA1000—10-10,000

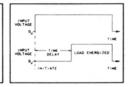




Applying power to the input terminals of TIKS energizes the load and initiates the time delay period. When the preselected time delay period is complete, the load deenergizes. To repeat the cycle, remove and reapply the input power. To reset the timing function during the time delay period, remove the input power.

Switch-Settable: TIKS7198DD7A--.1-102.3 TIKS7198DD9A-10-10.230 Knob-Adjustable: TIKS00C2X10—.1-10 TIKS00C2X100—1-100 TIKS00C2X1000—10-1000 TIKS00C2X10000—100-10,000





3-Wire Delay on Make.
The TWKS time delay period initiates when power is applied to the input terminals. At the end of the time delay period the load is energized as long as power is applied. Reset is accomplished by removal of power during or after the time delay period. The timer may be reset during the time delay period with no false output.

Switch-Settable: TWKS7198DD7A—.1-102.3 TWKS7198DD8A—1-1,023 TWKS7198DD9A-10-10,230 Knob-Adjustable: TWKS00C2X10—.1-10
TWKS00C2X10—1-100
TWKS00C2X100—10-1000
TWKS00C2X1000—10-10,000