

Delay On Make - Normally Closed KSD4 Digi-Timer Timing Module



Obsolete Specification
Redesigned product is available
see new specifications at:
www.ssac.com/standard/standard.htm

10
TEN YEAR
WARRANTY

- Load Capacity: 10 A steady state, 10 A inrush at 55°C
- Fixed Delay: 0.1 s ... 500 min
- 24 ... 230 V AC
- +/-0.5% accuracy
- +/-10% accuracy over Voltage and Temperature

Description

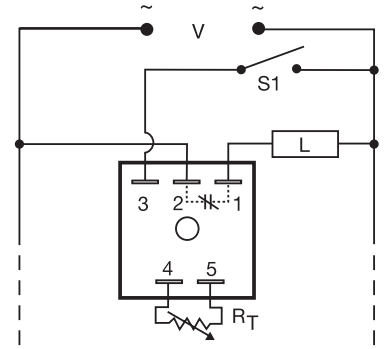
The KSD4 Digi-Timer offers a delay-on-make function with normally closed solid state output. It incorporates C/MOS digital circuitry to provide long delays, long life, and superb accuracy.

Operation

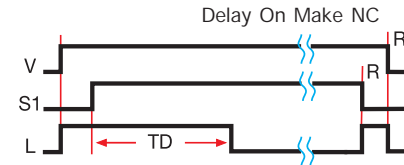
Upon application of input voltage, the load is energized immediately. When the initiate switch is closed, the time delay begins. At the end of the time delay, the load is de-energized.

Reset: When the initiate switch is reopened, the load is again energized and the time delay is reset. Removing input voltage resets the time delay.

Approvals:



R_T is used when external adjustment is ordered.



V = Voltage S1 = Initiate Switch L = Load
R = Reset TD = Time Delay
— = Undefined time

Ordering Table

KSD4 Series	Input	Adjustment	Time Delay*
X	-2 - 24 V AC	X	-0 - 0.1 ... 10 s
	-4 - 120 V AC	-1 - Fixed	-1 - 1 ... 100 s
	-6 - 230 V AC	-2 - External Adjust	-2 - 10 ... 1000 s
			-3 - 0.1 ... 10 m
			-4 - 1 ... 100 m
			-5 - 5 ... 500 m

*If Fixed Delay is selected, insert delay [0.1 ... 1000] followed by (S) secs. or [0.1 ... 500] (M) mins.

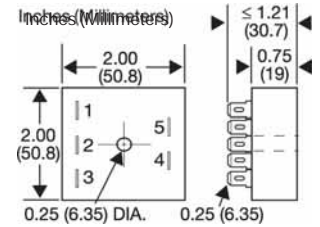
Example P/N: **KSD4421**
Fixed - **KSD4410.5S**

Technical Data

Time Delay	Digital integrated circuitry
Type	Digital integrated circuitry
Range	0.1 s ... 500 m in 6 adjustable ranges or fixed
Repeat Accuracy	+/-0.5% or 16 ms, whichever is greater
Tolerance (Factory Calibration)	≤ +/-10%
Recycle Time	300 ms
Time Delay vs. Temperature & Voltage	≤ +/-10%
Input	
Voltage	24, 120, or 230 V AC
Tolerance	+/-20%
Line Frequency	50 ... 60 Hz
Output	
Type	Solid state
Form	Normally Closed, closed during timing
Maximum Load Current	1 A steady state, 10 A inrush at 55°C
Minimum Holding Current	≤ 40 mA
Voltage Drop	≅ 2.5 V at 1 A
Protection	
Circuitry	Encapsulated
Dielectric Breakdown	≥ 2000 V RMS terminals to mounting surface
Insulation Resistance	≥ 100 MΩ
Mechanical	
Mounting	Surface mount with one #10 (M5 x 0.8) screw
Package	2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm)
Termination	0.25 in. (6.35 mm) male quick connect terminals
Environmental	
Operating Temperature	-40°C ... +60°C
Storage Temperature	-40°C ... +85°C
Humidity	95% relative, non-condensing
Weight	≅ 2.4 oz (68 g)

Desired Time Delay*						R _T Megohm
Seconds		Minutes				
0	1	2	3	4	5	
0.1	1	10	0.1	1	5	0.0
1	10	100	1	10	50	0.1
2	20	200	2	20	100	0.2
3	30	300	3	30	150	0.3
4	40	400	4	40	200	0.4
5	50	500	5	50	250	0.5
6	60	600	6	60	300	0.6
7	70	700	7	70	350	0.7
8	80	800	8	80	400	0.8
9	90	900	9	90	450	0.9
10	100	1000	10	100	500	1.0

* When selecting an external R_T add at least 20% for tolerance of unit and the R_T.



Accessories

- Mounting bracket
P/N: P1023-6
- External adjust potentiometer
P/Ns:
P1004-16 (fig A)
P1004-16-X (fig B)
- Female quick connect
P/N:
P1015-64(AWG14/16)
- Plug-on adjustment module
P/N:
VTP(X)(X)
- Quick connect to screw adaptor
P/N: P1015-18
- Versa-knob
P/N: P0700-7
- DIN rail adaptor
P/N: P1023-20

DIN rail P/Ns:
C103PM (Al)
17322005 (Steel)

Time Delay	VTP P/N
0 - 0.1 ... 10 s	VTP2C
1 - 1 ... 100 s	VTP2G
2 - 10 ... 1000 s	VTP2K
3 - 0.1 ... 10 m	VTP2N
4 - 1 ... 100 m	VTP2P
5 - 5 ... 500 m	VTP2R

See accessory pages at the end of this section.