ABB KSD41A01 02.17.03

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





- Load Energized Prior To and During Time Delay Fixed or Adjustable Delays from 0.1 s ... 500 min
- 24 ... 230 V AC

KSD4

Series

■ +/-0.5% Repeat Accuracy

Ordering Table

■ +/-10% Stability over Voltage and Temperature

-2 - 24 V AC

4 - 120 V AC

-6 - 230 V AC

Input

Description

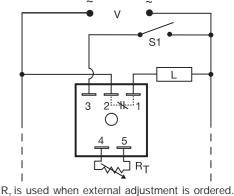
The KSD4 Digi-Timer offers a delay-on-make function with normally closed solid state output. It incorporates C/MOS digital circuitry to provide long delays, long life, and superb

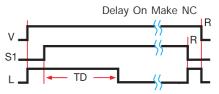
Operation

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.

10 s





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

= Undefined time

1	Delay On Make NC
v _)) /(IR
S1))
١	← TD →

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

Adjustment

-1 - Fixed -2 - External Adjust

-0 - 0.1 ... **-1 -** 1 ... 100 s **-2 -** 10 ... 1000 s **-3 -** 0.1 ... 10 m **-4 -** 1 ... 100 m 5 ... 500 m

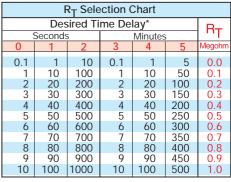
Time Delay*

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

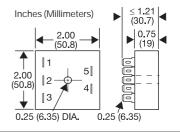
Technical Data

Time Delay		
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)	

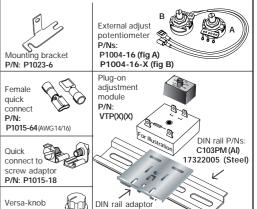
Time Delay			VTP P/N
0 –	0.1	10 s	VTP2C
		100 s	VTP2G
2 -	10	1000 s	VTP2K
3 -	0.1	10 m	VTP2N
4 –	1	100 m	VTP2P
5 -	5	500 m	VTP2R



When selecting an external $\ensuremath{R_{T}}$ add at least 20% for tolerance of unit and the $\ensuremath{R_{T}}.$



Accessories



P/N: P1023-20 See accessory pages at the end of this section.

P/N: P0700-7