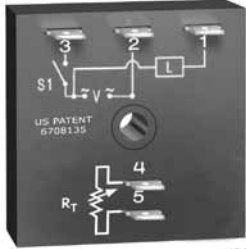


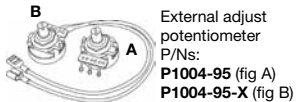
Delay On Make - Normally Closed KSD4 Digi-Timer Timing Module



- Fixed or Adjustable Delays from 0.1 s ... 1000 m
- +/-0.5% Repeat Accuracy
- +/-5% Factory Calibration
- 24, 120, or 230 V AC
- 1 A Solid State Output
- Encapsulated

Approvals:

Accessories



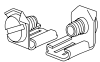
External adjust potentiometer
P/Ns:
P1004-95 (fig A)
P1004-95-X (fig B)



Mounting bracket
P/N: P1023-6



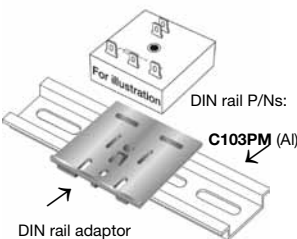
Female quick connect
P/N:
P1015-64 (AWG 14/16)



Quick connect to screw adaptor
P/N: P1015-18



Versa-knob
P/N: P0700-7



DIN rail adaptor
P/N: P1023-20

See accessory pages for specifications.

Description

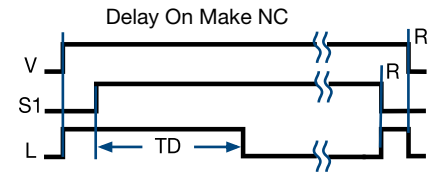
The KSD4 Digi-Timer offers a delay on make function with normally closed solid state output. The load is energized prior to and during the time delay. This series is designed for general purpose commercial and industrial applications where a small, cost effective, reliable solid state timer is required. 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 input voltages of 24, 120 or 230 V AC. Time delays of 0.1 seconds to 1000 minutes are available in 6 ranges. The output is rated 1 A steady and 10 A inrush. The modules are totally solid state and encapsulated to protect the electronic circuitry.

Operation

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

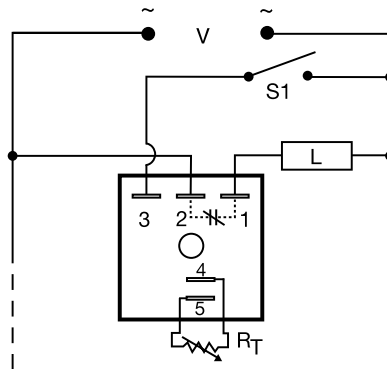
Reset: When the initiate switch is reopened, the load energizes and the time delay is reset. Removing input voltage resets the time delay.

Function



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

Connection



RT is used when external adjustment is ordered.
Dashed lines are internal connections.
S1 = Initiate Switch

Available Models-

KSD4617S

Don't see what you need? Call us for a minimum quantity and price quote!

Ordering Table

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

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

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

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

Dedicated
timers

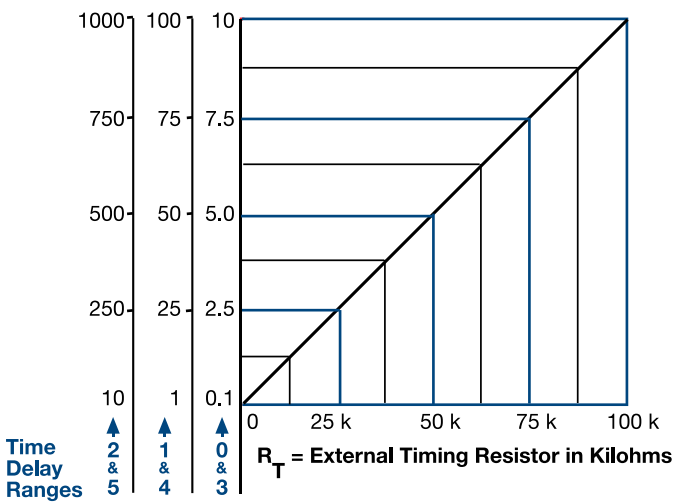
Technical Data

| | |
|--|--|
| Time Delay Range Repeat Accuracy Tolerance (Factory Calibration) Reset Time Time Delay vs. Temperature & Voltage | 0.1 s ... 1000 m in 6 adjustable ranges or fixed +/-0.5% or 20 ms, whichever is greater ≤ +/- 5% ≤ 150 ms ≤ +/-10% |
| Input Voltage Tolerance Line Frequency Power Consumption | 24, 120, or 230 V AC +/-20% 50 ... 60 Hz ≤ 2 VA |
| Output Type Form Maximum Load Current OFF State Leakage Current Voltage Drop | Solid state Normally Closed, closed before and during timing 1 A steady state, 10 A inrush at 60°C ≅ 5 mA at 230 V AC ≅ 2.5 V at 1 A |
| Protection Circuitry Dielectric Breakdown Insulation Resistance | Encapsulated ≥ 2000 V RMS terminals to mounting surface ≥ 100 MΩ |
| Mechanical Mounting Package Termination | Surface mount with one #10 (M5 x 0.8) screw 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm) 0.25 in. (6.35 mm) male quick connect terminals Environ- |
| mental Operating Temperature Storage Temperature Humidity Weight | -40°C ... +60°C -40°C ... +85°C 95% relative, non-condensing ≅ 2.4 oz (68 g) |

5

External Resistance vs Time Delay

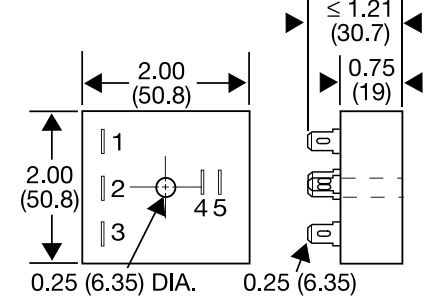
In Secs. or Mins.



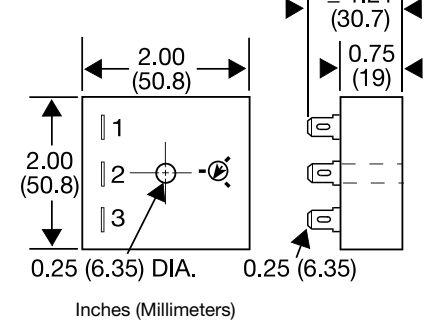
This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the R_T terminals; as the resistance increases the time delay increases. When selecting an external R_T , add the tolerances of the timer and the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

Mechanical View

Fixed & External Adjust



Onboard Adjust



KSD4Gen 09.10