

KAL-DIN TIME

Battery Powered Time Indicator

Features

- Multi-Resolution Time Ranges:
Sec., Min. & Sec, Hrs & Min. or Hrs & 1/100ths
- Battery Powered
- 8 Digit LCD Display
- Remote & Front Panel Reset
- NEMA 4X / IP65 Front Panel

Applications:

For timing industrial processes, machine down time / on time indicator, event timing, monitor testing time.

Description:

The KAL-DTIME1 and KAL-DTIME2 are 8 year, lithium battery powered, elapsed timers with the following resolutions: minutes and seconds (KAL-DTIME1) or, hours and minutes, or hours and 1/100ths (KAL-DTIME2). The front panel meets NEMA 4X/IP65 standards. The display has 8 large digits each 0.276" high.

Specifications:

Power: Internal Lithium Battery (life 8 years calculated).

Display: 8 digit, LCD, 0.276" high.

Accuracy: $\pm 0.003\%$ @ 25°C

Temperature Drift: .035 PPM/°C²

Aging: 3 PPM/Year max.

Temperature Range: 14 to 140°F (-10 to 60°C)

Signal Inputs:

Pin 4 — Contact Closure Time; Negative level active
Low: <0.7 VDC, High: open or 3 to 18 VDC

Pin 3 — Reset-Contact closure to common resets, level triggered, min. pulse width 12mS.

Pin 2 — Reset Enable; link to common (Pin 1) to enable front reset.

Pin 5 — Timing Mode Select;
KAL-DTIME1 - Min. & Sec.
KAL-DTIME2 - Hours & 100ths

LEFT OPEN

KAL-DTIME1 - Seconds

KAL-DTIME2 - Hours & Minutes

Approvals: UL File: E135458, CSA File: LR96702,
CE Approved

Material: ABS Plastic

Weight: 1.7 oz.

Battery Life: 8 years (calculated)

Connection: 5 pin, plug in connector with 9" leads supplied with timer.

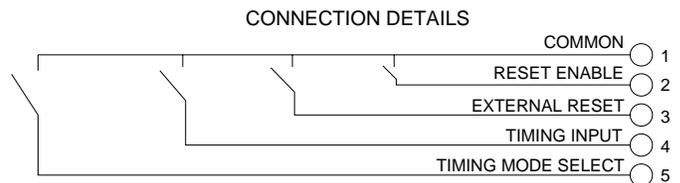
Sealing: Front Panel sealed to NEMA 4X/IP65

Mounting: Spring clip mount provided. Optional two screw mounting and/or competitor retro-fit available.

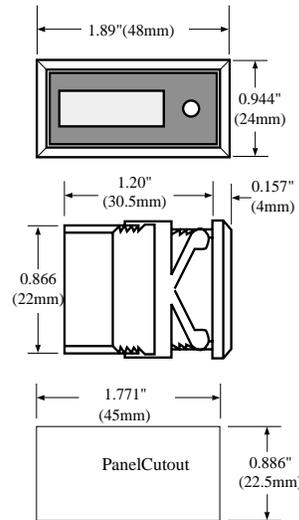
Note- A 5-240 VAC or DC pulsing module is available as "KAL-DTIME AC/DC."



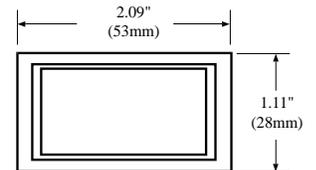
Hookup:



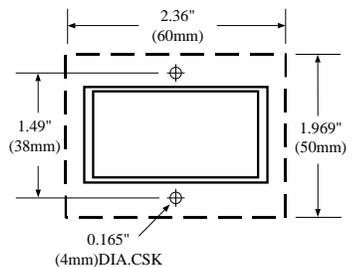
Mounting:



Adaptors (included) KAL-DP1X2



KAL-DP1



NOTE: KAL-DP1x2 and KAL-DP1 panels are included

TIMERS

TERMINAL BLOCK MODULE

Description -- KAL-D TB

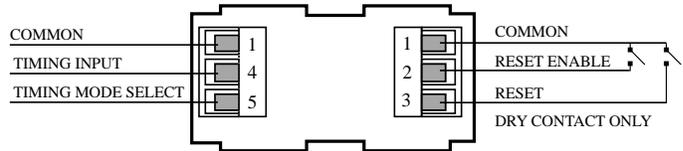
(For screw terminal connection with standard pulse characteristics)

Pin numbers shown on terminal block correspond to wire lead numbers.

Two Pins #1 are internally connected.

DO NOT CONNECT KAL-D TB TO AC VOLTAGE

Terminal Block (TB) Adaptor Connections



5-240 VOLT INPUT MODULES

**Description -- KAL-D AC/DC (Counter)
KAL-DTIME AC/DC (Timer)**

The KALD AC/DC Module enables the KALD to accept 5-240 VAC/DC input signals. (The KAL-DTime AC/DC is used for the KAL-DTIME series). The module snaps into the back of the counter. The circuitry allows various voltage pulses to be used for counting and provides optoisolation of 2500V.

**KAL-D AC/DC (Counter)
SPECIFICATIONS:**

Signal Inputs:

18 Hz max. (15 msec. pulse width min.)

5 to 48 VAC/DC

Low: < 1.5 VAC/DC or open
High: 5 to 55 VAC/DC

48 to 240 VAC/DC

Low: <15 VAC/DC or open
High: 48 to 264 VAC/DC

Input Impedance:

5 to 48 VAC/DC - 10K ohms

48 to 240 VAC/DC - 58.5K ohms

Reset:

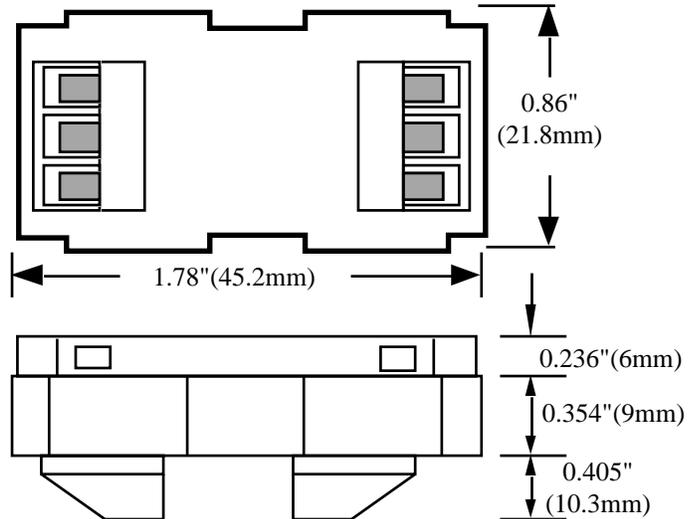
Dry contact closure only.

15msec. min. pulse.

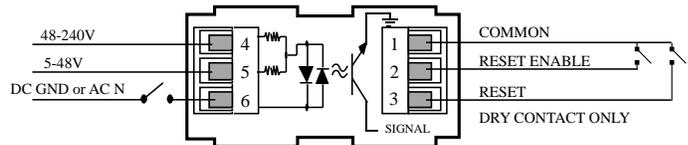
Temperature Range:

Same as KAL-D series

Dimensions for AC/DC Adaptor and Terminal Block



AC/DC Adaptor Connections



NOTE: Jumper terminal 5 to terminal 6 to raise the low threshold to 25V for triac inputs or when low voltage does not reach 0V. Connect input to terminals 4 & 6.

It may be necessary to place a 10 kΩ 7W resistor across terminals 4 & 6 to bring voltage below 25V.

How To Order:

Part Number	Description
KAL-DTIME1	Sec., or Min. & Sec. Timer
KAL-DTIME2	Hours & 100ths or Hrs. & Min. Timer
KAL-DTIMEAC/DC	5-240V AC/DC input module
KAL-DTB	Terminal block adaptor

TIMERS