

# KAL-D06 TIME

## Miniature, Low Cost, LCD, 8 Digit Electronic Timer

### Features

- 8 Digits Standard
- Meets NEMA 4X and IP65 Ratings
- Long Life (10 Year) Lithium Battery
- Screw Terminal Block
- Electronic or Contact Closure Input
- Electronic Input for Sinking Inputs from a Max. of 18VDC Without Module
- High Voltage (10 to 240 V AC; 2 to 110V DC) Inputs Optional



### Description:

The KAL-D06 Time timers are small, lithium battery powered, timers that are panel mounted. The timers are designed as replacements for standard electro-mechanical timers. They use the latest custom CMOS technology and incorporate an 8 digit, 0.354" (9mm) high, LCD display.

It operates from a long life lithium battery (life 10 years) and can be operated from contact closure or electronic devices. No separate alkaline batteries are required. The front reset button can be disabled if desired.

### Specifications:

**Battery:** Non-replaceable Lithium battery, expected life of 10 years at 20°C

**Display:** 8 digit black LCD, Digit size 0.354" (9mm) high, leading zero blanking, backlight requires external supply

**Reset:** Panel or remote (can be disabled if desired)

### Time Range:

SECONDS:	99999999
MINUTES and SECONDS:	99999-59
HOURS and 1/100ths	99999-99
HOURS and MINUTES:	99999-59

### Temperature Range:

Operating: 14 to 140°F (-10 to 60°C)  
Storage: -4 to 140°F (-20 to 60°C)

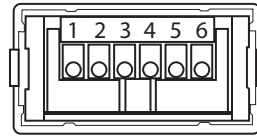
**Battery Life:** 10 years at 20°C (calculated)

**Relative Humidity:** 80% max. up to 31°C, decreasing to 50% max. at 40°C

**Connection:** Finger-proof screw terminal for wires up to 0.06" (1.5mm<sup>2</sup>)

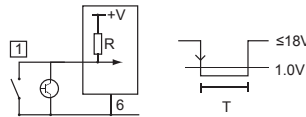
**Sealing:** NEMA 4X/IP65; **Remove film from self adhesive gasket before use!** Overvoltage Category II, Pollution Fegree 2 (IEC 64)

### KAL-D06 Time Wiring:



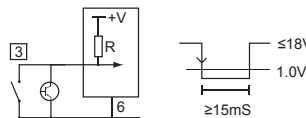
- 1 - Timing Input
- 2 - Not Used
- 3 - External Reset Input
- 4 - Direction Input
- 5 - External Power for Backlight
- 6 - 0V, Common

### Timing Input:



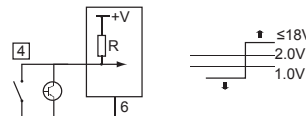
- Sink input NPN
- R = Internal resistor 3.3MΩ
- Max 18V, theshold 1V
- Negative edge trigger
- Seconds, Minutes-Seconds  
T=Minimum 1 second
- Hours 1/110, Hours-Minutes  
T=Minimum 6 seconds

### External Reset Input:



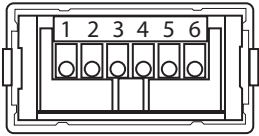
- Sink input NPN or contact closure
- R = Internal resistor 3.3MΩ
- Max 18V, theshold 1V
- Negative edge trigger
- Min. 15mS

### Direction Input:



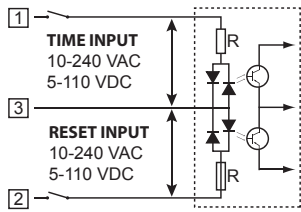
- Sink input NPN or contact closure
- R = Internal resistor 3.3MΩ
- UP: Not connected or >2V (logic 1), max 18V
- DOWN: Connected to common or <1V (logic 0)
- Direction signal must change >5μS before Count signal.

**KAL-D06 Time-HV Wiring**



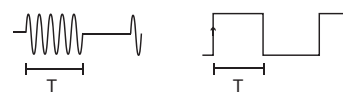
- 1 - High Voltage Timing Input
- 2 - High Voltage External Reset Input
- 3 - Common for pins 1 & 2
- 4 - Direction Input
- 5 - External Power for Backlight
- 6 - 0V, Common for pins 4 & 5

**High Voltage Input:**



**High Voltage Timing Input**

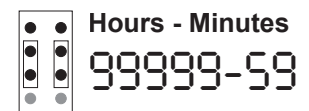
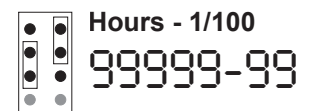
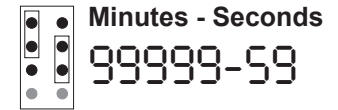
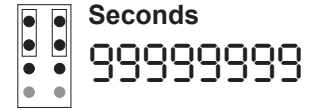
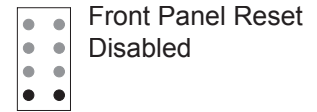
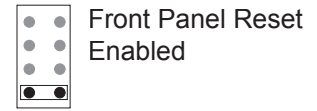
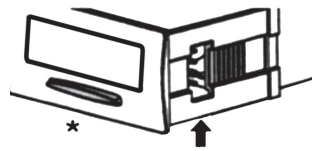
- Opto-isolated
- R = Internal resistor 50kΩ
- 10 - 240V AC ±10%
- 5 - 110V DC ±10%
- Seconds, Minutes-Seconds  
T=Minimum 1 second
- Hours 1/110, Hours-Minutes  
T=Minimum 6 seconds



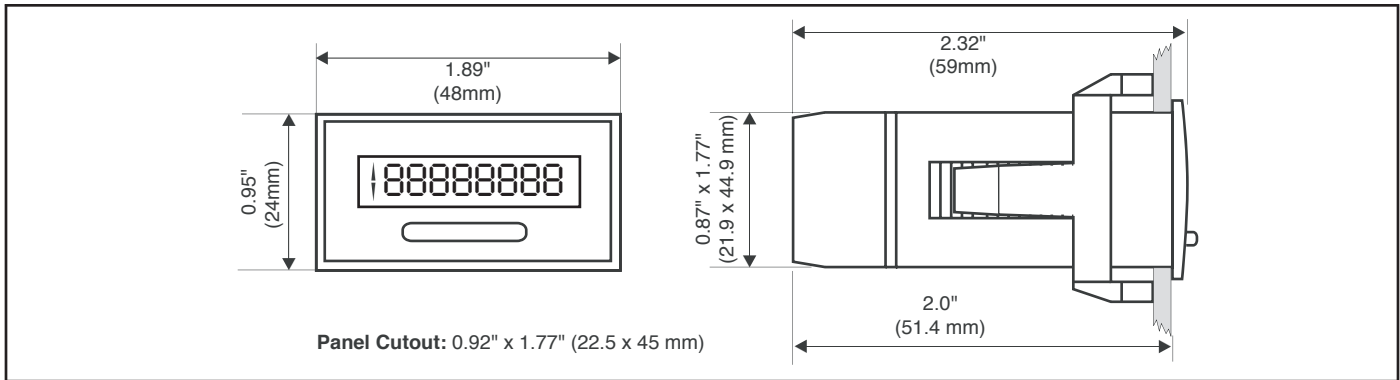
**High Voltage Reset Input**

- Opto-isolated
- R = Internal resistor 50kΩ
- 10 - 240V AC ±10%
- 5 - 110V DC ±10%
- Min 15mS

**Jumpers**



**Dimensions**



**How To Order:**

- KAL-D06 Time ..... 8 digit timer with 10 yr battery
- KAL-D06 Time-HV ..... 8 digit timer with 10 yr battery with High Voltage Input

**Accessories**

- N7 - Explosion proof housing (see accessories section)
- E200 - Outdoor Enclosure (see accessories section)