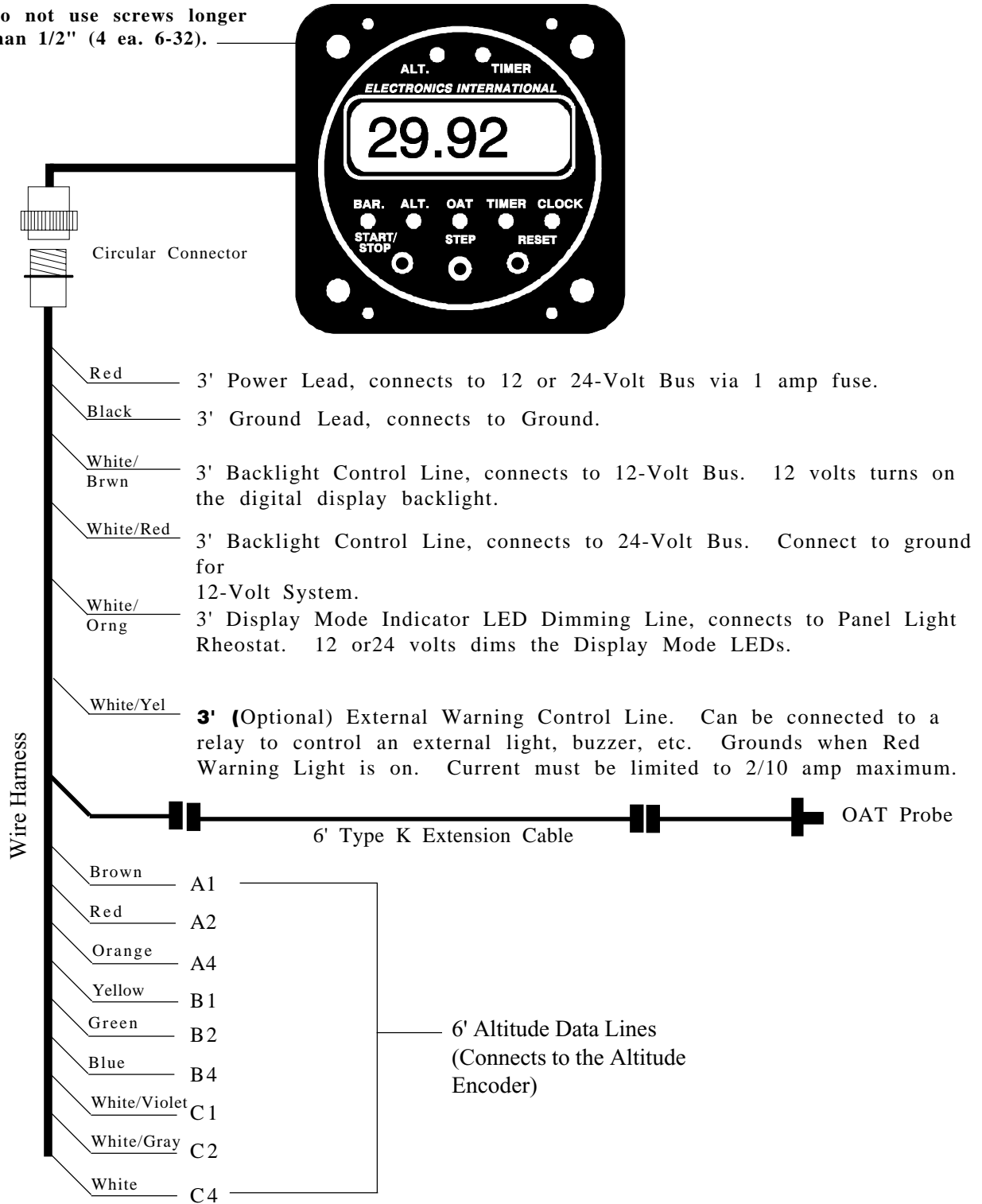


# ASC-5A Wiring Diagram

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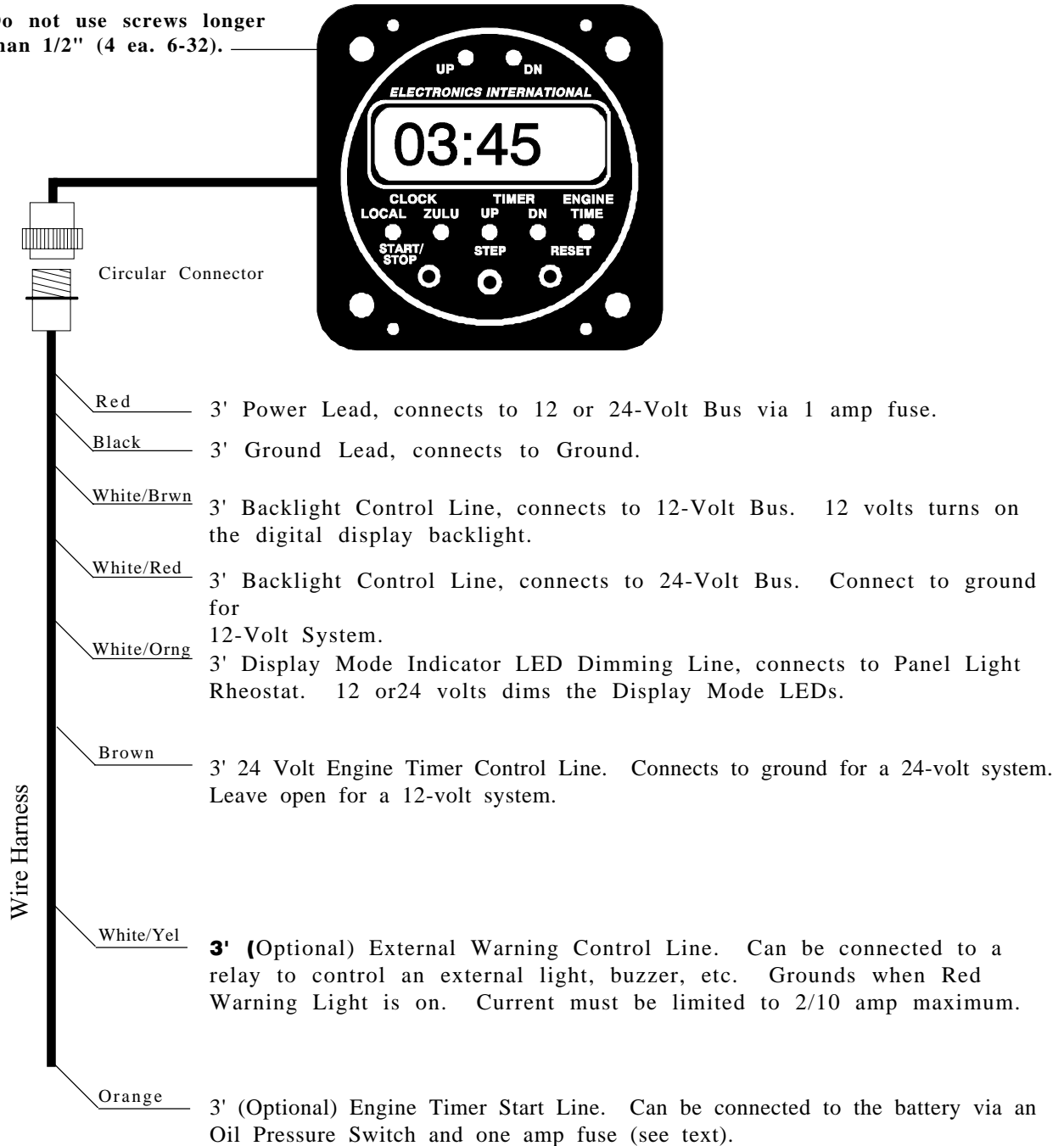
Do not use screws longer than 1/2" (4 ea. 6-32).



## SC-5 Wiring Diagram

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Do not use screws longer than 1/2" (4 ea. 6-32).



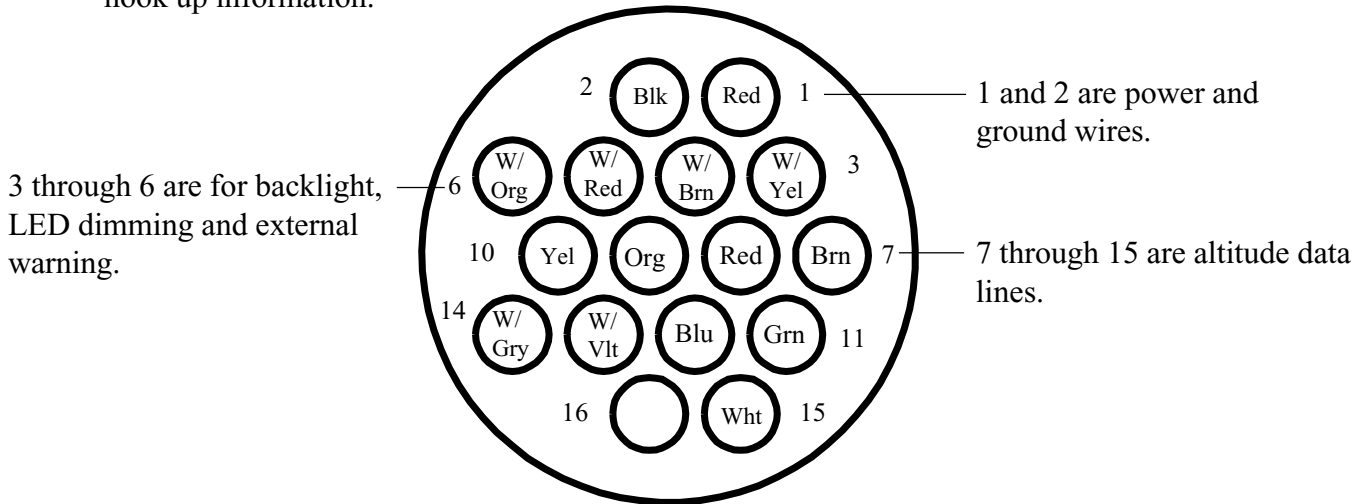
# ASC-5A

## Circular Connector

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### Connecting Cable Harness, Back View (wire side)

Note: See Wiring Diagram for hook up information.



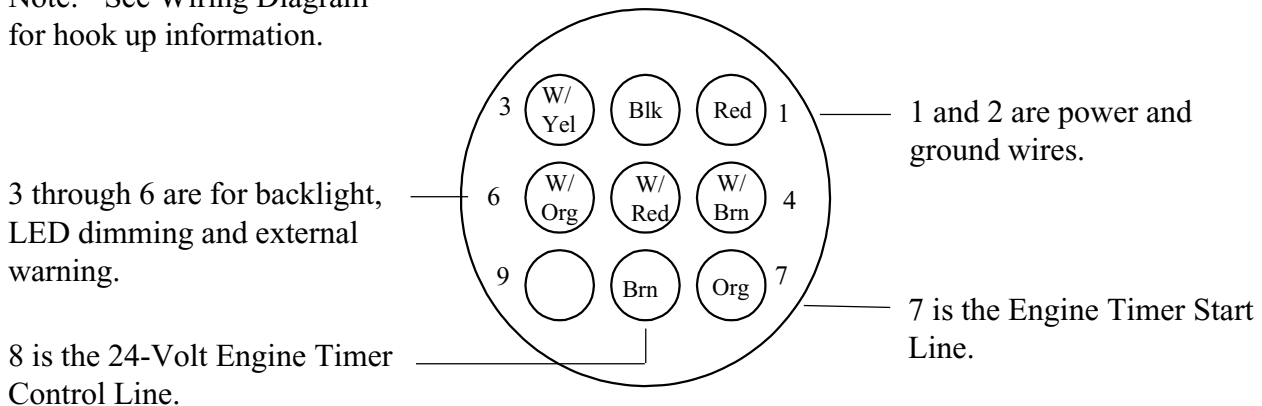
# SC-5

## Circular Connector

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### Connecting Cable Harness, Back View (wire side)

Note: See Wiring Diagram for hook up information.



# Specifications and Operating Features

## Model:

ASC-5A (Altitude Alert/Super Clock)

## Case Dimensions:

2.5" x 2.5" x 3.65" depth, 2 1/4" Bezel.

## Weight:

Unit Only - 11 Oz.

## Environmental:

Meets DO-160C

## Power Requirements:

7.5 to 35 Volts, 1/10 Amp.

## Green Display Mode Indicator LEDs:

The intensity of these LEDs is controlled by the dimming wire. 12 or 24 volts on this wire will dim the LEDs for night operation.

## Yellow "ALT." Warning LED:

This LED will blink for the following conditions:

- A. Level Off Alarm - When your altitude reaches 100 to 300 (determined by the Assigned Deviation setting) from your pilot programmed Assigned Altitude the "ALT." Warning LED will "blink." Once this alarm has been acknowledged and turned off, it will be reset when your current altitude reaches 500 feet above or below the Assigned Altitude.
- B. Assigned Deviation Alarm - If your altitude deviates more than 100 to 300 feet (determined by the Assigned Deviation setting) above or below the programmed Assigned Altitude, the "ALT." Warning LED will "blink." Once this alarm has been acknowledged and turned off, it will be reset when your current altitude is within 100 to 300 feet (determined by the Assigned Deviation setting) of the Assigned Altitude setting for 8 seconds.
- C. Approach Altitude Alarm - If your altitude drops to the programmed Approach Altitude setting or below, the "ALT." Warning LED will "blink." Once this alarm has been acknowledged and turned off, it will be reset when your current altitude reaches 300 feet above the Approach Altitude setting.

Push any button or switch to stop the blinking (acknowledge the alarm) and turn off the "ALT." Warning LED.

## Yellow "TIMER" Warning LED:

If the ASC-5A Timer is set up as an Up Timer, the "TIMER" Warning LED will "blink" when the Timer reaches the programmed Recurring Alarm Setting or a multiple of this setting. If your ASC-5A Timer is set up as a Down Timer, the "TIMER" Warning LED will "blink" when the Timer reaches 0:00.

## Digital Display:

LCD (viewable in direct sunlight), with 12 and 24 volt backlight control wires for night operation. Displays "88:88" on power up.

External Warning Control Line:

Grounds when any yellow Warning LED is blinking. Current should be limited to 2/10 amp.

Display Modes:

- BAR. - Displays Barometric Pressure setting.
- ALT. - Displays Encoder Altitude or Assigned Altitude determined by the Display Configuration setting. Push the "START/STOP" Button to display Encoder Altitude (displayed with an "E") or Assigned Altitude (displayed with an "A"). Push the "RESET" Button to display Density Altitude (pressure altitude corrected with OAT). Density Altitude will be displayed as "OFF" for OAT readings above 135°F. Pressure Altitude will be displayed for altitudes above 18,000 feet.
- OAT - Displays Outside Air Temp in degrees Fahrenheit (°F) or degrees Celsius (°C).
- TIMER- Displays the time on the Up or Down Timer. The Up Timer will start automatically when your aircraft reaches an elevation of 300 feet above the ground.
- CLOCK- Displays the Local or Zulu Clock.

Maximum Displayed Range or Setting:

- BAR. Setting ----- 28.00 to 32.99 inches of mercury or 900 to 1199 millibars.
- Altitude (displayed) ----- -1000 to 30,500 feet.
- Assigned Altitude (setting) ---- 0 to 99,900 feet.
- Approach Altitude (setting) - 0 to 9,900 feet.
- OAT (displayed) ----- -99°F to 1999°F (-87°C to 999°C).
- TIMER (displayed) ----- 00:00 to 17 hours, 59 minutes.
- Recurring Alarm/Start Time (setting) - 00:00 to 99 minutes, 59 seconds.

Accuracy:

- Altitude: +/- 50 feet plus the accuracy of your Altitude Encoder (typically +/- 125 feet).
- OAT: +/- 2% in accordance with TSO-C43a.
- Timer: +/- .005% plus +/- .5 second.
- Clock: +/- 2 minutes/month.

Resolution:

- BAR. ----- .01 inches of mercury.
- Altitude ----- 100 feet.
- OAT ----- 1°F or 1°C.
- Timer ----- 1 second (switches to 1 minute for readings over 59 minutes and 59 seconds).
- Clock ----- 1 minute.

Pilot Programmable Modes:

|             |                                       | Display Modes           |                       |     |                                |                                   |
|-------------|---------------------------------------|-------------------------|-----------------------|-----|--------------------------------|-----------------------------------|
|             | Power-up                              | BAR.                    | ALT.                  | OAT | TIMER                          | Clock                             |
| Programming | Set Local Clock                       | Set Barometric Pressure | Set Target Altitude   |     | Set Recurring Alarm/Start Time | Set Local Clock Format (12 or 24) |
|             | Set Zulu Clock                        |                         | Set Approach Altitude |     |                                |                                   |
| Modes       | Set Assigned Deviation                |                         |                       |     |                                |                                   |
|             | Set Altitude Display Configuration    |                         |                       |     |                                |                                   |
|             | Set Barometric Pressure Configuration |                         |                       |     |                                |                                   |
|             | Set Minutes Lock Configuration        |                         | 13                    |     |                                |                                   |

# SC-5 Specifications and Operating Features

## Model:

SC-5 (Super Clock)

## Case Dimensions:

2.5" x 2.5" x 3.65" depth, 2 1/4" Bezel.

## Weight:

Unit Only - 11 Oz.

## Environmental:

Meets DO-160C

## Power Requirements:

7.5 to 35 Volts, 1/10 Amp.

## Green Display Mode Indicator LEDs:

The intensity of these LEDs is controlled by the dimming wire. 12 or 24 volts on this wire will dim the LEDs for night operation.

## Yellow "UP" Timer Warning LED:

The "UP" Timer Warning LED located over the digital display will "blink" when the "UP" Timer reaches the pilot programmed Recurring Alarm setting or a multiple of this setting. Push any button or switch to stop the blinking (acknowledge the alarm) and turn off the "UP" Timer Warning LED.

## Yellow "DN" Timer Warning LED:

The "DN" Timer Warning LED located over the digital display will "blink" when the "DN" Timer reaches 0:00. Push any button or switch to stop the blinking and turn off the "DN" Timer Warning LED.

## Digital Display:

LCD (viewable in direct sunlight), with 12 and 24-volt backlight control wires for night operation. Displays "88:88" on power up.

## External Warning Control Line:

Grounds when any yellow Timer Warning LED is blinking. Current should be limited to 2/10 amp.

## Maximum Displayed Range or Setting:

TIMER (displayed) ----- 00:00 to 17 hours, 59 minutes.

Recurring Alarm (setting) --- 00:00 to 99 minutes, 59 seconds.

Start Time (setting) ----- 0:00 to 99 minutes, 59 seconds.

## Accuracy:

Local and Zulu Clock ----- +/- 2 minutes/month.

UP and Down Timer ----- +/- .005% plus +/- .5 second.

Engine Timer ----- +/- .005% plus +/- .5 second.

Resolution:

Local and Zulu Clock ----- 1 minute.

Up and Down Timer ----- 1 second (switches to 1 minute for readings over 59 minutes and 59 seconds).

Engine Timer ----- .01 Hours.

Engine Timer Start Voltage:

13 volts +/- .2 volts for a 12-volt system.

26 volts +/- .3 volts for a 24-volt system.

Pilot Programmable Modes:

|                         |                       | Display Modes        |             |                 |            |            |
|-------------------------|-----------------------|----------------------|-------------|-----------------|------------|------------|
|                         |                       | Power-up             | Local Clock | Zulu Clock      | UP Timer   | Down Timer |
| Programming Modes Modes | Local Clock           | 12 or 24-Hour Format |             | Recurring Alarm | Start Time |            |
|                         | Zulu Clock            |                      |             |                 |            |            |
|                         | Minutes Configuration |                      |             |                 |            |            |