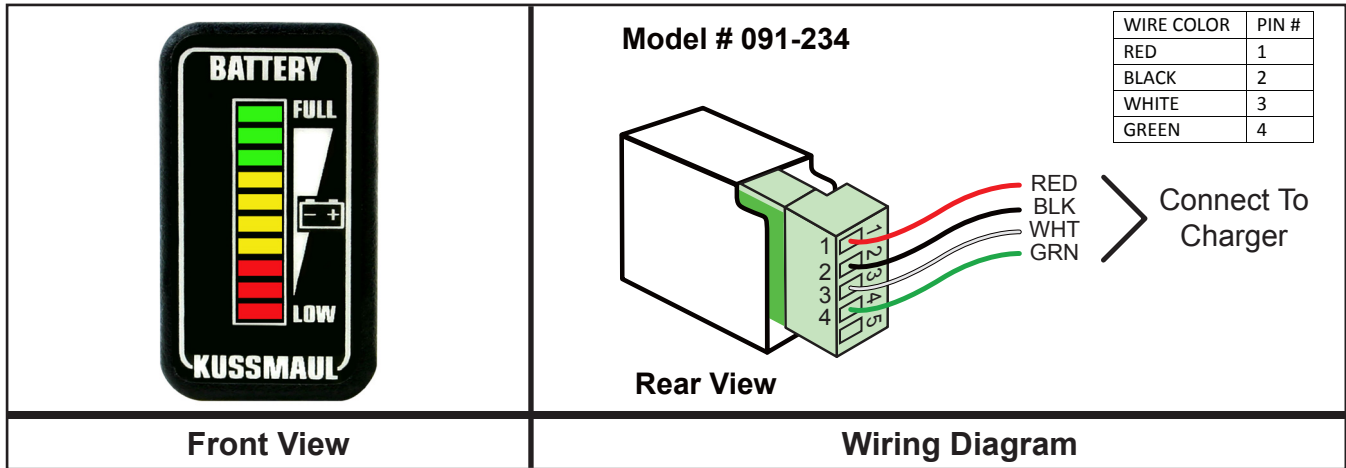


## INSTRUCTION MANUAL

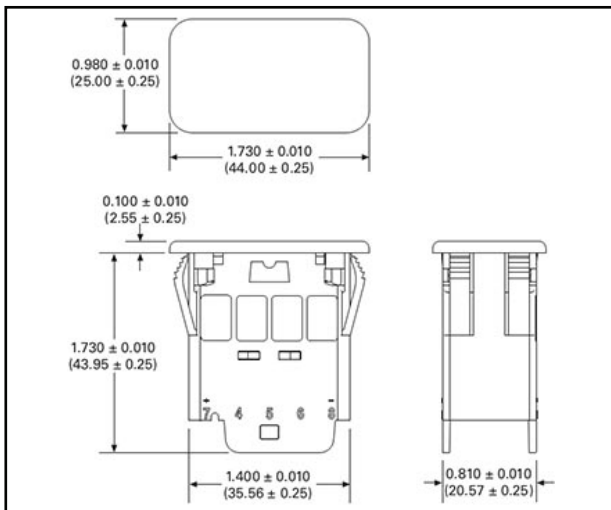
# MINI SINGLE BAR GRAPH DISPLAY

## BATTERY CHARGER STATUS INDICATOR

The Mini Single Bar Graph Display is a universal display containing a 10-LED bar graph to indicate the vehicle's battery status when used with a Kussmaul Charger. The top or bottom LED's blink to indicate HIGH VOLTAGE or LOW VOLTAGE is detected, respectively. The housing is designed to fit into a standard 1.45" x 0.83" panel cut-out. Connect the red, black, white, and green wires to the Kussmaul Battery Charger.



**High/Low Voltage Alert** - The Mini Single Bar Graph Display contains detection for when there is a high or low voltage in the vehicle battery. Knowing when the vehicle's battery voltage is too high or low can help to protect the battery, and extend its life through proper use and maintenance. When there is HIGH VOLTAGE the top LED will blink. When there is LOW VOLTAGE the bottom LED will blink.



### 091-234 Specifications:

**Input Voltage:** 12 to 30 VDC

**Input Current:** 30mA, Max

**Temperature Range:** -40F to 120F

**Cutout Size:** 1.45" x 0.83"

**Bar Graph Range:** 12-13 +/- 2% (bottom to top)

**Low Voltage:** < 12.0 VDC (bottom LED flashes)

**High Voltage:** > 14.8 VDC (top LED flashes)

**Warranty:** 3 years

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