

Smart Battery Isolator Controller 48540

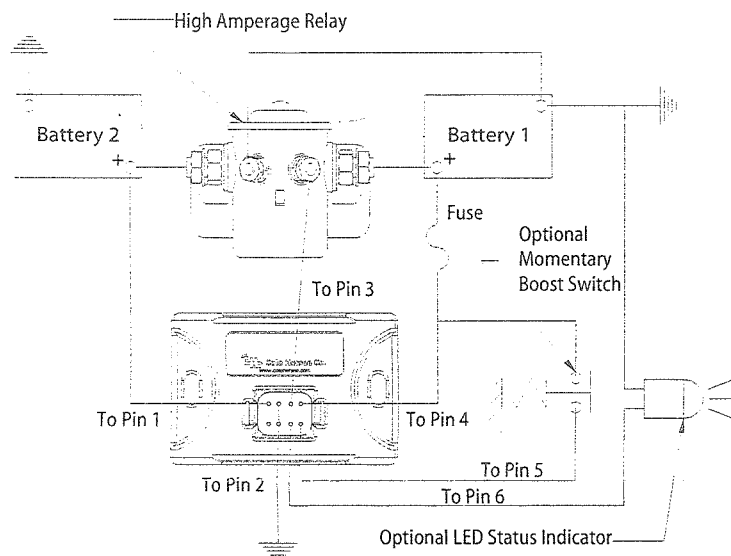
For 12V and 24V DC systems

10A at 85°C



Connections

(using the 12805 Mating Connector Kit)



6. Connect pin 6 (STATUS) to an indicator light or the positive side of an LED. Connect the other side of the indicator to ground.
7. Unused connector pins should be plugged with a Deutsch blanking pin. (See specifications section.)

Normal Operation Summary

12V limits (24V limits)

1. When either the main battery or the accessory battery voltage is above 13.2V (26.4V) for two minutes, the controller will connect the two battery banks by energizing the solenoid. The status indicator is also energized.
2. When the batteries drop below 12.7V (25.4V) for one minute, the controller will separate them by de-energizing the solenoid. The status indicator is also de-energized.
3. If the boost button is depressed, the controller will connect the two batteries for one minute by energizing the solenoid (provided the main battery is above 8.5V.) The status indicator will also be energized for one minute. After one minute the controller resumes monitoring battery voltage.

Warning: Disconnect the battery before installation.

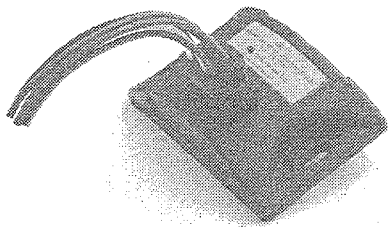
Required Connections:

1. Connect pin 1 (AUX BATT+) to the positive terminal of the accessory battery.
2. Connect pin 2 to ground.
3. Connect pin 3 (COIL+) wire to positive side of the solenoid coil. Connect the negative side of the solenoid coil to a local ground.
4. Connect pin 4 (MAIN BATT+) to an appropriately sized fuse. Connect the fuse to the positive terminal of the main battery.

Optional Connections:

5. Connect pin 5 (BOOST) to a normally open momentary switch. Connect the other side of the switch to MAIN BATT+.

Additional Operating Detail

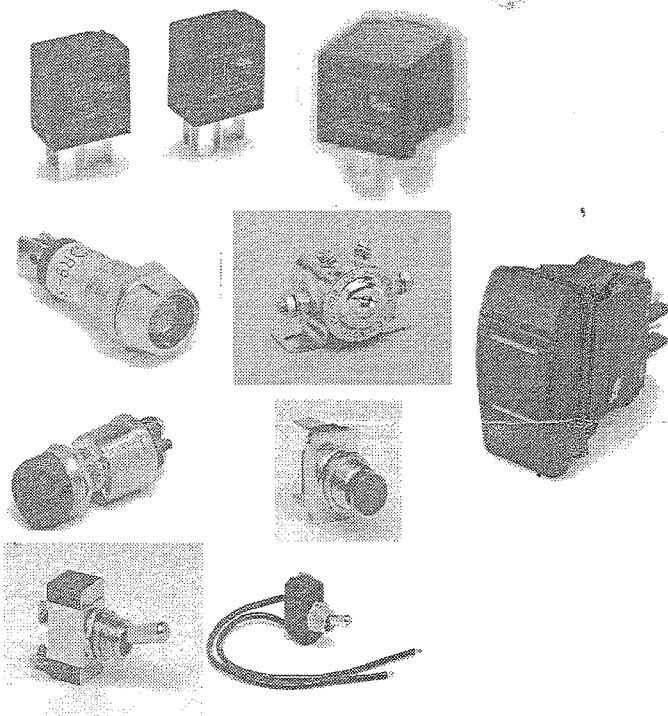


Overcurrent Protection - If the output of the controller exceeds 15A for 3 seconds, the load is disconnected. After a 7 second cool off period, the controller resumes normal operation.

Abnormal Voltage - If Batt+ is less than 8.5V or greater than 34V for one half second the output will turn off. The unit automatically resumes normal operation after Batt+ returns to normal.

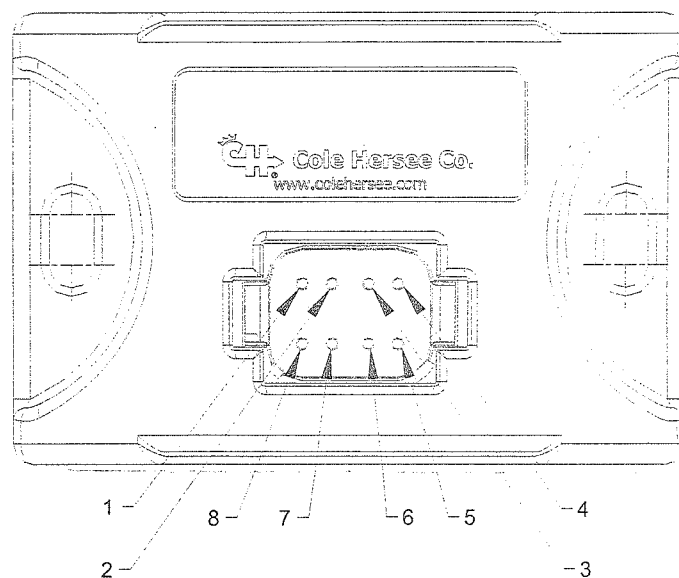
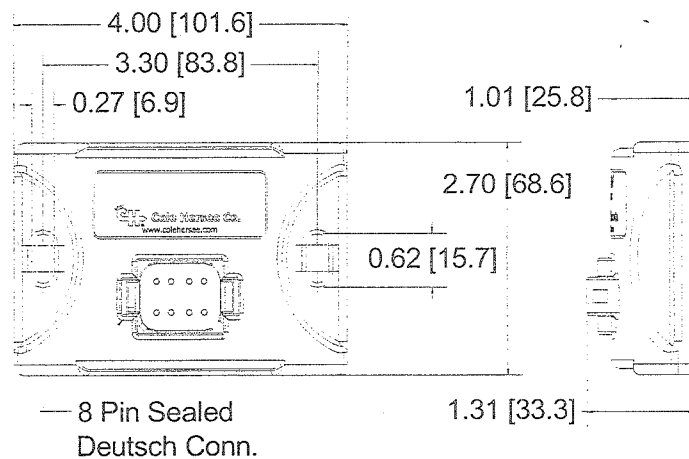
Cole Hersee Smart Battery Isolator accessories

12805:	Mating connector kit
24059/24106:	12V 85A Solenoid
24143:	12V 200A Solenoid
24063/24124:	24V 85A Solenoid
24144:	24V 200A Solenoid
9216-03:	Momentary Switch
9187:	Momentary Push Button Switch
PL-612-G:	12V Green LED Indicator Light
MA-250012-RS:	12V Relay for Alarm Circuit
MA-150024-RS:	24V Relay for Alarm Circuit
58332-03:	Rocker Switch with 12V Indicator
55020-02:	Toggle Switch
55020-04:	Coated Toggle Switch



General Specifications

Environmental:	SAE J1455 & J1113 Sealed to IP-67
Electrical:	9-32V DC 10A max load current Status Line 200 mA max. 2 mA max quiescent current
Blanking pin:	Deutsch 114017
Accuracy:	+/- 50 mV
Mating Connector:	Deutsch DT06-08S



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Send technical questions to:
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IF-169
rev 0C