

Adjustable time or voltage based battery disconnect automatically shuts off devices to preserve battery power

Can be configured to be used as one of the following battery saving products

Timer Disconnect

- 12V signal triggers relay to connect battery power to devices
- When signal is removed the timer is activated and will disconnect devices after a preset time
- Timer ranges from 15 minutes to 4 hours

Low Voltage Disconnect

- 12V signal triggers relay to connect battery power to devices
- After 12V signal is removed, ATD senses low battery voltage and automatically disconnects devices
- Low voltage setting can be used in conjunction with Timer Disconnect. Low voltage will disconnect devices prior to preset time to preserve battery power

Automatic Charging Relay

- Automatically combines two batteries when charging, and isolates them when discharging
- Single side sensing design only monitors the voltage of the start battery
- Ideal for auxiliary batteries that are AGM or significantly larger than the start battery

Solenoid

- 12V signal will connect or disconnect relay without any time delay

Related Products



MRBF® Terminal
Fuse Blocks



LED Indicator
Lights



7615

IGNITION
PROTECTED



7615 cover off

AUTOMATIC TIMER DISCONNECT

Specifications

Nominal Voltage	12V DC
Input Voltage Range	9.5-16V
Continuous Rating	120A
Intermittent Rating: 5 min.	210A
(Combine) Amperage Operating Current	175mA
(Open) Amperage Operating Current	4mA
Cable Size to Meet Current Ratings	1 AWG (50mm ²)
Maximum Cable Size	1/0 AWG (50mm ²)
Terminal Stud Size	3/8"-16 (M10)
Terminal Stud Torque	140 in-lb (15.82 Nm)
Time Range	15 Minutes - 4 Hours

Charge Sense ON

Connected	(3 sec) 13.0V or greater
Timing	(10 sec) 12.75V or lower

Low Voltage

Disconnected	(10 sec) Battery Voltage < Disconnect Voltage
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Over Voltage

Disconnected	(5 sec) 16.0V or greater
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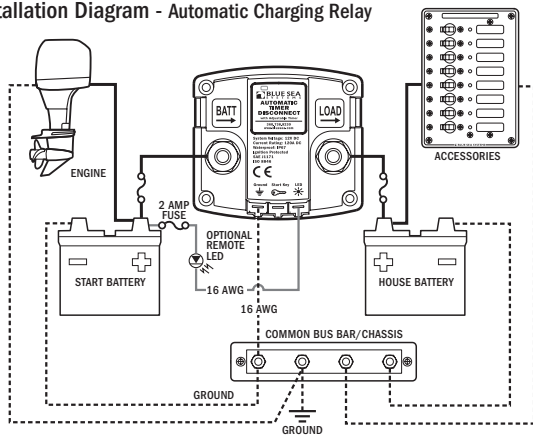
Regulatory

CE marked for ignition protection. Meets ISO 8846 and SAE J1171 external ignition protection requirements
IP67 - protected against immersion up to 1 meter for 30 minutes

Guarantee

Blue Sea Systems stands behind its products for as long as you own them.
Find detailed information at www.bluesea.com/about.
For customer service, call 800-222-7617.

Installation Diagram - Automatic Charging Relay



Legend

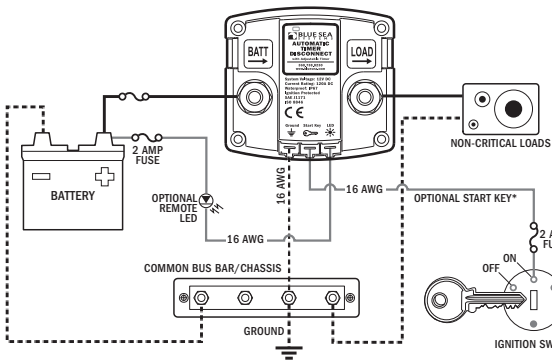
DC Positive ——— DC Negative - - - - - Optional Connection ———

Note: Because the ATD is single sensing, the battery connected to the charging source must be attached to the stud labeled "BATT". Reversal of the starting and house batteries will create undesirable results.

It is recommended that the ATD be connected directly to your battery positive terminals through appropriately sized fuses. Connecting in a different location such as a battery switch may affect accuracy because of voltage drop along current carrying conductors.

The Start Key terminal is an optional connection when in ACR mode. If connected the ATD will connect anytime an ignition signal is sensed. Once ignition signal is removed the ATD will go back to voltage sensing. If desired, wire the same as the diagram below.

Installation Diagram - Timer, Solenoid, or Low Voltage Disconnect

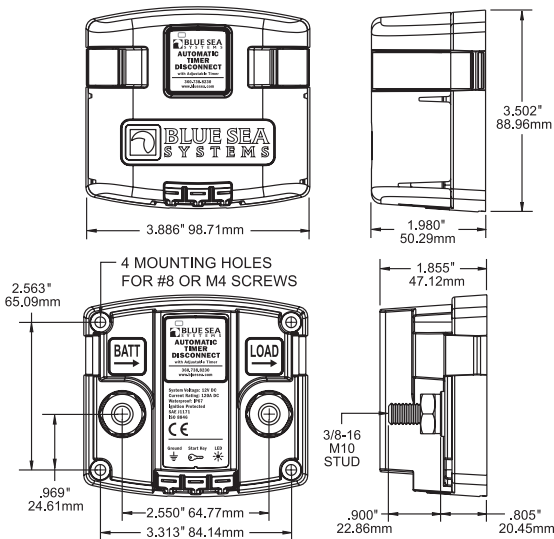


Note: Because the ATD is single sensing the battery must be attached to the stud labeled "BATT" and the devices to be disconnected must be attached to the stud labeled "LOAD". Reversal of these connections will render charge sense functionality non-operational.

* Start Key connection is optional only if "Charge Sense" setting is enabled, to allow the ATD to connect when it senses battery voltage above 13.0V for 3 seconds.

These installation diagrams show typical applications only. Your application may differ.

PN	Description
7615	Automatic Timer Disconnect



State	Conditions to Enter State
Connected Relay Closed LED Solid ON	Ignition ON OR { Charge Sense ON + Above 13V for 3 sec. }
Timing Relay Closed LED Single Flash	Ignition OFF + { Charge Sense OFF OR Below 12.75V for 10 sec. }
Disconnected Relay Open LED OFF	Timer setting expired OR Below disconnect voltage setting for 10 sec.
Overvoltage Relay Open LED double flash	Above 16V for 5 sec. To clear overvoltage lockout state: Below 15.9V



425 Sequoia Drive
Bellingham, WA 98226 USA
p 360.738.8230
p 800.222.7617 USA and Canada
conductor@bluesea.com
www.bluesea.com