

VOLTAGE SENSITIVE RELAY



The Voltage Sensitive Relay (SR) allows you to run powerful accessories without flattening your start battery. Dual battery charging made easy.

Operation

SR allows two batteries to be charged at the same time. When the engine is started and the start battery reaches the set engage voltage, the SR engages, allowing two battery banks to be charged simultaneously. When the voltage drops below the set disengage voltage, the SR disengages, separating the batteries. This system eliminates the possibility of draining the start battery and protects sensitive electronic equipment, powered from the house battery, from harmful engine start up spikes.

The cut out has a 5-10 seconds delay preventing the relay from disconnecting during a momentary drop in voltage.

Features

- ❑ Priority charging: ensures main battery is charged before connecting to auxiliary battery.
- ❑ Eliminates multi-battery drain.
- ❑ Has no voltage drop.
- ❑ Microprocessor controlled.
- ❑ Built-in surge protected.
- ❑ LED indicator (on/contact closed).
- ❑ Sealed to protect against oil, gas, salt, water and harsh environments.(IP65)
- ❑ Compact size, no need large heat sink.
- ❑ Endurable PBT housing.
- ❑ Easy 3 wire connection at the battery. No need to bypass existing alternator wiring.
- ❑ CE certified.

Available models

SR-XX X X X

- └ Sense (S=signle, D=dual)
- └ Style (A)
- └ Voltage (1=12V, 2=24V)
- └ Current rating (Amps)/10
- └ Voltage Sensitive Relay (SR)

MODEL	AMPS	VOLTAGE	SENSE
SR-141AS	140	12V	single
SR-141AD	140	12V	dual
SR-142AS	140	24V	single
SR-142AD	140	24V	dual

NOTE:

Single sense: senses the main battery voltage only.

Dual sense: senses both the main and the aux battery voltage.

Specifications - Model:SR141AS

- ❑ Continuous current: 140Amps
- ❑ Intermittent current: 160Amps
- ❑ System voltage: 12 Vdc
- ❑ System ground: negative
- ❑ Sense: single
- ❑ Engage/disengage voltage: 13.4/12.8Vdc
- ❑ Disengage delay: 5-10 seconds
- ❑ Voltage drop: nil
- ❑ Charging type: parallel
- ❑ Control: MCU
- ❑ Current draw: 250mA-charging, 10mA-standby
- ❑ Surge protection: built-in
- ❑ Mounting: surface/firewall
- ❑ Recommended fuse: 150Amp
- ❑ Minimum cable size: 16mm²
- ❑ Power studs: M6, brass with tin plated
- ❑ Nuts: brass with Nickel plated
- ❑ Torque settings: 6.0 N M
- ❑ Dimensions: 2.68"x2.68"x1.93"
- ❑ Weight:0.45Lbs (0.2Kgs)

Specifications - Model:SR142AD

- ❑ Continuous current: 140Amps
- ❑ Intermittent current: 160Amps
- ❑ System voltage: 24 Vdc
- ❑ System ground: negative
- ❑ Sense: single
- ❑ Engage/disengage voltage: 26.8/25.6Vdc
- ❑ Disengage delay: 5-10 seconds
- ❑ Voltage drop: nil
- ❑ Charging type: parallel
- ❑ Control: MCU
- ❑ Current draw: 150mA-charging, 10mA-standby
- ❑ Surge protection: built-in
- ❑ Mounting: surface/firewall
- ❑ Recommended fuse: 150Amp
- ❑ Minimum cable size: 16mm²
- ❑ Power studs: M6, brass with tin plated
- ❑ Nuts: brass with Nickel plated
- ❑ Torque settings: 6.0 N M
- ❑ Dimensions: 2.68"x2.68"x1.93"
- ❑ Weight:0.45Lbs (0.2Kgs)

VOLTAGE SENSITIVE RELAY



Available models

SR-XX X X X

- Sense (S=single, D=dual)
- Style (B; C=with override switch)
- Voltage (1=12Vdc, 2=24Vdc)
- Current rating (Amps)/10
- Voltage Sensitive Relay (SR)

Typical models:

MODEL	AMPS	VOLTAGE	SENSE
SR-141BS	140	12V	single
SR-142BS	140	24V	single
SR-141BD	140	12V	dual
SR-142BD	140	24V	dual
SR-141CS	140	12V	single

NOTE:

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Dual battery charging made easy.

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Features

- ❑ Priority charging: ensures main battery is charged before connecting to auxiliary battery.
- ❑ Eliminates multi-battery drain.
- ❑ Has no voltage drop.
- ❑ Microprocessor controlled.
- ❑ Built-in surge protected.
- ❑ LED indicator (on/contact closed).
- ❑ Sealed to protect against oil, gas, salt, water and harsh environments.(IP65)
- ❑ Compact size, no need large heat sink.
- ❑ Endurable PBT housing.
- ❑ Easy 3 wire connection at the battery. No need to bypass existing alternator wiring.

Specifications - Model:SR141BS

- ❑ Continuous current: 140Amps
- ❑ Intermittent current: 160Amps
- ❑ System voltage: 12 Vdc
- ❑ System ground: negative
- ❑ Sense: single
- ❑ Engage/disengage voltage: 13.4/12.8Vdc
- ❑ Disengage delay: 5-10 seconds
- ❑ Voltage drop: nil
- ❑ Charging type: parallel
- ❑ Control: MCU
- ❑ Current draw: 250mA-charging, 10mA-standby
- ❑ Surge protection: built-in
- ❑ Recommended fuse: 150Amp
- ❑ Minimum cable size: 16mm²
- ❑ Power studs: M6, brass with tin plated
- ❑ Nuts: brass with Nickel plated
- ❑ Torque settings: 6.0 N M
- ❑ Dimensions: 3.48"x3.08"x1.90"
- ❑ Weight:0.48Lbs (0.22Kgs)

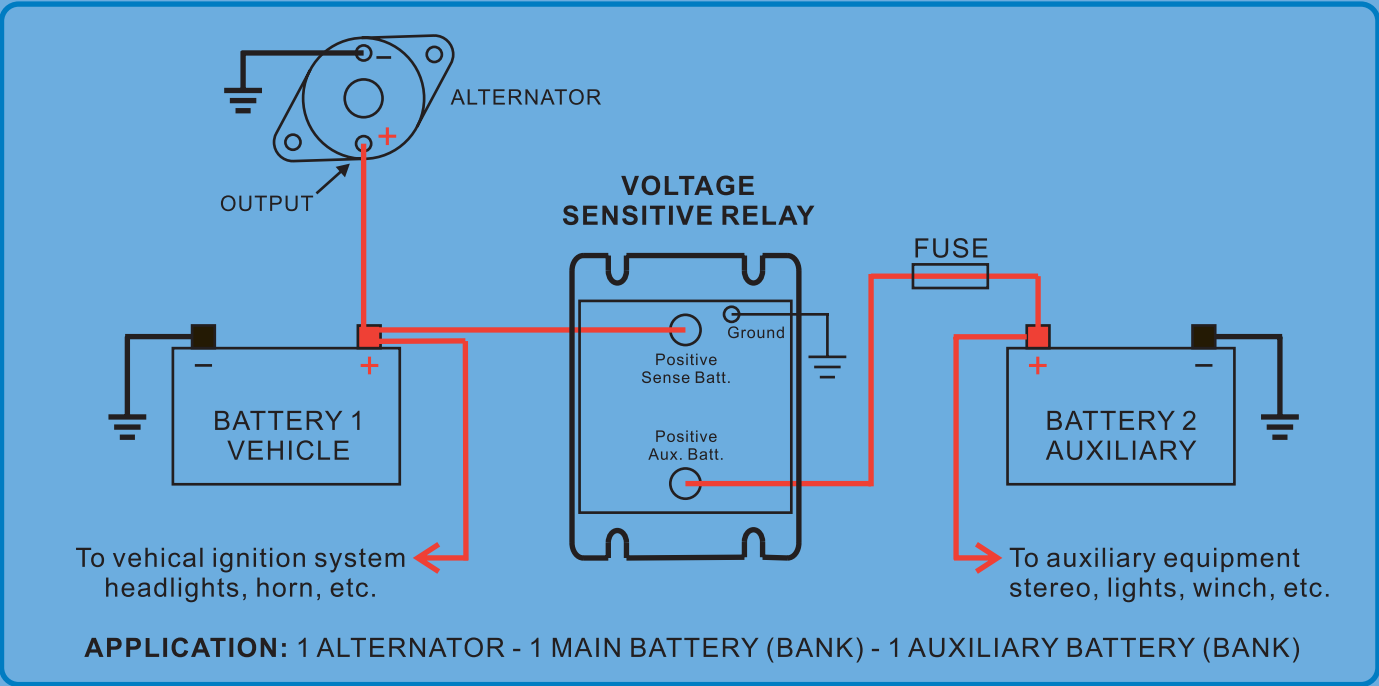
Specifications - Model:SR141CS

- ❑ Same as SR-141BS
- ❑ Override: rocker switch control
- ❑ Minimum drive voltage: 8.0Vdc



VOLTAGE SENSITIVE RELAY

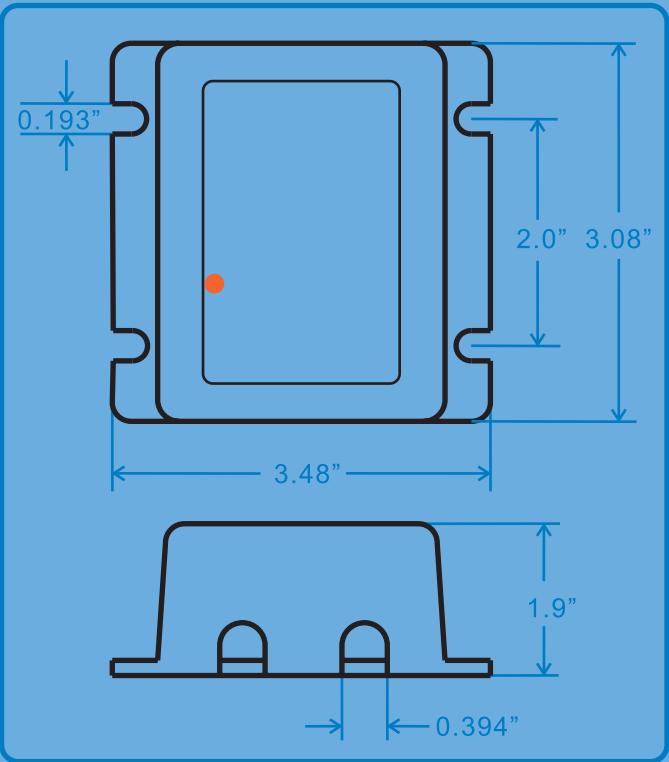
Typical installation



Dual sense SR operation

Same as the single sense SR with the added feature of dual sensing. This allows the unit to sense the voltage of both batteries that it is connected between. If either battery is receiving a charge the SR will activate paralleling the two battery banks. The dual sense SR is designed for situations where a battery charger or second charging source is used into the house battery.

Dimensions



Mounting

After wiring:

1. Fix the back cover with two ST3x16 screws as shown.



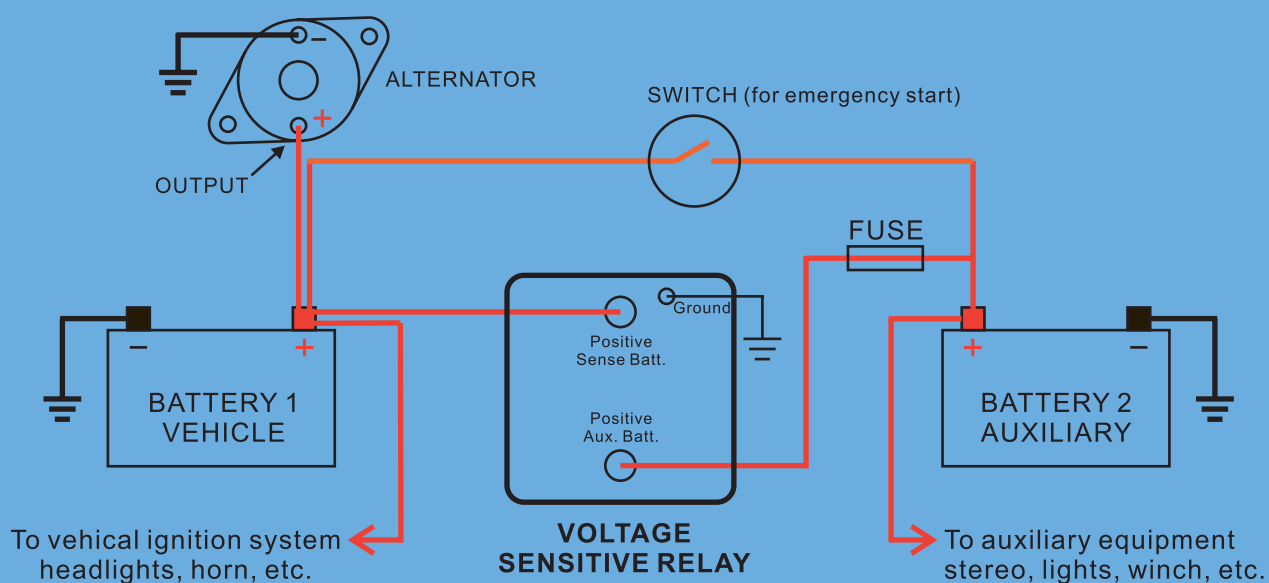
2. Mounting the unit with four ST4.2x15 screws.



Note: mounting hardware included.

VOLTAGE SENSITIVE RELAY

Typical installation

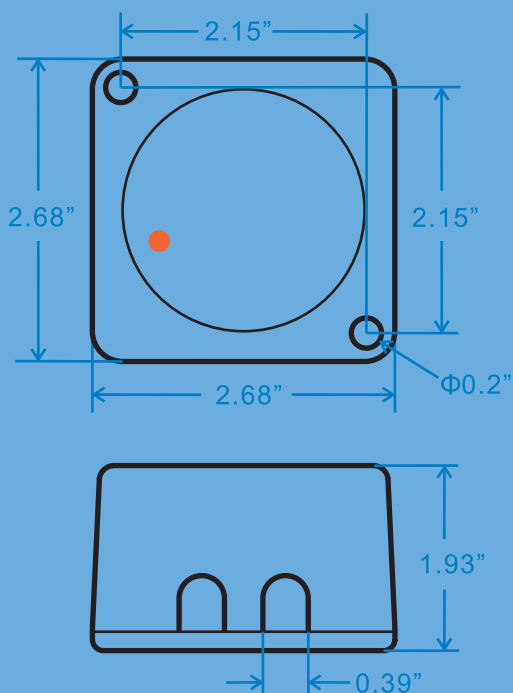


APPLICATION: 1 ALTERNATOR - 1 MAIN BATTERY (BANK) - 1 AUXILIARY BATTERY (BANK)

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Dimensions



Mounting

After wiring:

1. Fix the back cover with two 3.5x13 screws as shown.
2. Mounting the unit with two 4.8x50 screws.



Note: mounting hardware included.