



Built-in compartments

Built-in compartments designed for flush mounting of battery isolators and battery switches

Code	Material	battery isolator compartment	Hole version	Bore Ø mm	Recess depth mm
14.561.02	<input type="checkbox"/> ABS white	-	circular	143	70
14.561.03	<input type="checkbox"/> ABS white	14.905.00; 14.920.00	Square	149x149	90

Voltage Sensitive Relay

This relay allows simultaneous charging of two batteries with just one alternator.

When the engine starts, the Voltage Sensitive Relay remains open until the starter battery reaches 13.7 / 27 V.

At this point, the Voltage Sensitive Relay closes the contact and simultaneously charges the 2 batteries.

When the engine stops and the voltage drops below 12.8 / 25.2 V, the Voltage Sensitive Relay opens the contact and separates the two batteries, thus preventing the discharge of the wrong battery and also avoiding current spikes harmful to the onboard electronics when the engine is restarted.

Protects the starter battery from discharging due to onboard services.

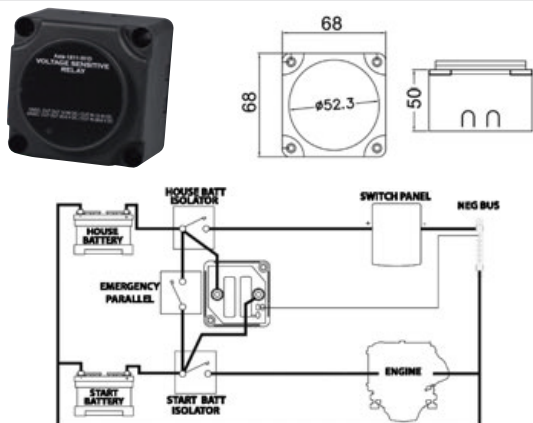
No voltage drop.

No current absorption in standby mode.

Easy to install without altering the alternator wiring.

Automatic selection 12/24 V.

Code	V	A	Description	mm
14.921.90	12/24	140	Voltage-sensitive relay	68x68x50



VSR Voltage Sensitive Relay with Starter isolator

Allows simultaneous charging of two batteries.

Remains open until the starter battery reaches 13.7/27.0 V.

At this point, it closes the contact and simultaneously charges both batteries.

When the voltage of the start battery drops the isolator kit disengages from charging the auxiliary battery.

This isolates the start battery and eliminates the possibility of draining it, ensuring that you always have enough charge to start your engine. No voltage drop.

Protects the starter battery from the risk of discharging due to onboard services. No drop in voltage.

Stand-by absorption 0.5 mA. VSR indicator LED active and automatic selection 12/24 V.

Functions:

- Start Isolation: enforces temporary isolation during engine start-up to better protect onboard electronics.

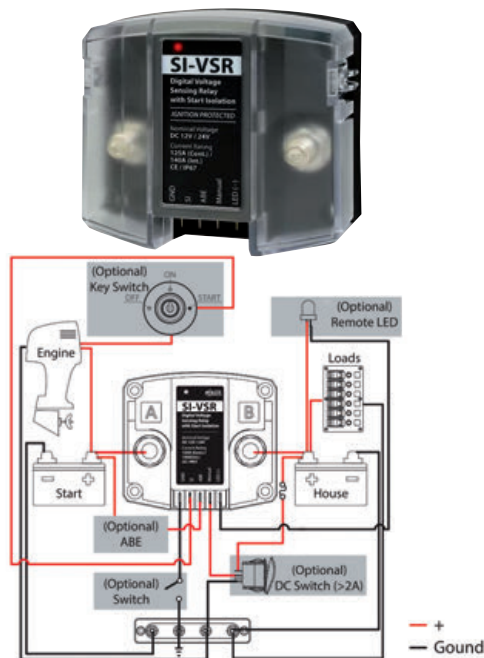
- ABE: with the engine at idle allows an extra charging period for both batteries, lowering the disconnection level to 12.2/24.5 V instead of 12.8/25.5 V. (*)

- Storage Mode: reduces current consumption to 0 when engine is off. (*)

- Manual ON-OFF operation possibility.

- Front contacts (10 mm) for easier installation + transparent protective cover.

(*) These functions are OPTIONAL, can be activated only if desired).



Code	V	A		Description
		continuous	intermittent	
14.921.91	12/24	125	140	Voltage-sensitive relay

LITTELFUSE® bistable automatic smart latching relay

IP67

It connects the battery banks (starting + services) when alternator/battery charger are working and it disconnects the banks when the charging system stops.

Supports high current loads (e.g., powerful inverters).

Ability to connect battery banks in an emergency, with a simple switch control.

Very low consumption in ON/OFF due to the bistable system.

Meets ISO 8846/SAEJ1171.

Deutsch 6-pin DTM male connector.

Code	V	Max capacity A		Control current	Relay contact position				
		for 10 sec	in continuous		closes (30 sec) with voltage	closes (90 sec) with voltage	opens (10 sec) with voltage	opens (30 sec) with voltage	opens circuit
14.921.35	12	1500	300	40 mA*/6 A**	13.5 V	13.1 V	12.3 V	12.7 V	16.5 V***
14.921.36	24	1500	300	40 mA*/3 A**	27.0 V	26.0 V	24.0 V	25.5 V	32.4 V***



14.921.37 Deutsch 6-pole DTM female connector (DTM 06-65).

At rest

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In activation phase, 50 m/sec.

System protection

