E1040 1A VOLTAGE SENSITIVE SWITCH

This Unit provides a set voltage to switch a load of up to 1A.

The current drawn from the voltage source is < 1mA below the switching voltage.

The output switches On as the voltage rises and Off as the voltage falls.
The switch voltage can be set in the range 10.5V to 14.0V.

This Unit was designed to maintain the Cranking Battery threshold voltage of 12.5V ï 13.5V, depending on the setting of the Voltage Adjuster (ie: to suit the application) thus retaining sufficient battery capacity to start the Vehicle.

The Unit also can be used as a Solid State 1A Relay.

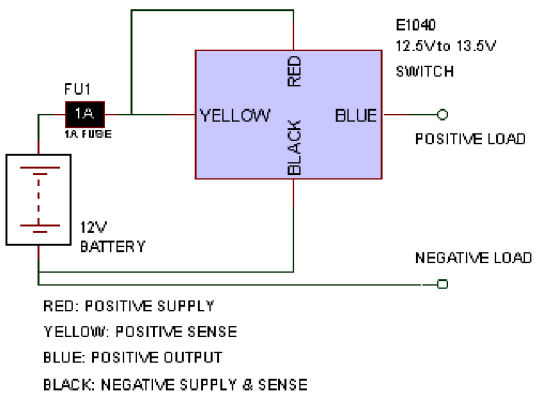
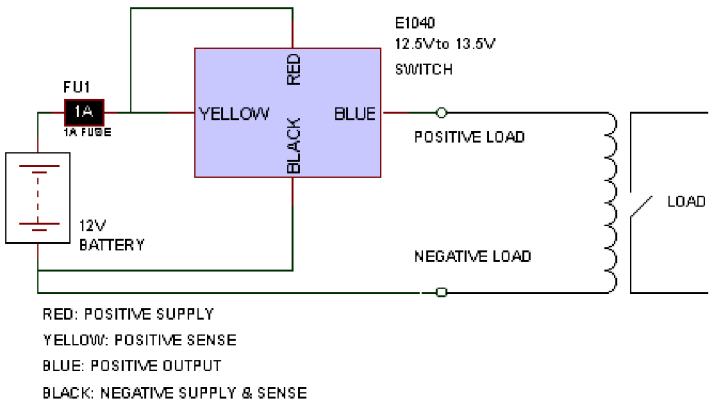
The Unit can be used for switching higher power by adding a relay - SEE WIRING DIAGRAM BELOW



Specification:

Parameter	Value
Supply Voltage (Vin)	10V to 15V
Output Current	1A
Sense (Switch On) Voltage, factory setting	13.1V (Voltage Rising)
Sense (Switch ON) Voltage, Adjustment Range	10.5V to 14.0V
Sense Voltage Hysteresis	200mV typical
Supply current, below switch voltage	< 1mA
Supply Current, Above Switch Voltage, No Load	< 5mA
Connections	Four Flying Leads Red = Supply positive Blue = Output Yellow = Sense Input Black = Sense negative / ground
Physical Dimensions	62 x 42 x 13mm
Mountings	Single Ø 5mm Hole

Wiring Diagrams

Standard Wiring Diagram	The Unit also can be used as a Solid State 1A Relay. The Unit can be used for switching higher power by adding a relay (as shown below)
	

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