Cole Hersee Flexmod

Voltage Sensing Relay and Timer Series

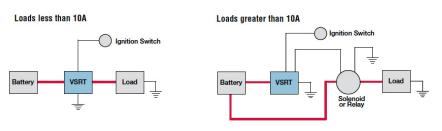








Installation Configuration



Parts	Description
48541	Voltage Sensing Relay and Timer Unit, Blue Thermoplastic, 10A, 32V DC
48541-01	Voltage Sensing Relay and Timer Unit with 12805 Harness, Blue Thermoplastic, 10A, 32V DC
48741	Dealer-programmable Voltage Sensing Relay and Timer Unit, Blue Thermoplastic, 10A, 24V DC
12805	FlexMod Harness

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Description

The FlexMod electronic voltage sensing relay & timer monitors both battery voltage and ignition status, shutting down non-critical loads when the cutoff voltage is reached, or at the set time after the ignition is turned off. It is a timer and voltage sensor in one easy-to-connect unit. Ideal for use in emergency vehicles, the unit senses both voltage and time; after the vehicle engine is turned off, if either the cutoff voltage or time limit is reached, the Voltage Sensing Relay & Timer FlexMod will shut down the auxiliary loads. The dual technology in package provides double protection. The FlexMod electronic voltage sensing relay & timer opens up options for mounting in a small space, and simplifies wiring and other components.

Features and Benefits

- · Protects starting battery from being drained by auxiliary loads
- Compact design (4 x 3 x 1), and solid-state unit is waterproof, dustproof and vibration-proof. Mounts anywhere on a vehicle, even places where road-splash is a problem. Sealed to IP67 standard
- Preserves starting power; eliminates downtime and jump starts due to dead batteries. Simultaneous time and voltage sensing protects starting, even when the vehicle is running "in deficit"
- Monitors voltage and time simultaneously, providing double the protection to batteries. Battery will not be drained if battery voltage gets low before timer has run out.
- 10A rating means it can handle many loads directly or drive a relay or solenoid for higher amperage
- Unit is auto-ranging senses 12V DC or 24V DC systems
- Unit can be used as-is, with factory-programmed presets, or can be programmed by dealers to a broad scale of values

Applications

Heavy-duty mining and construction vehicles, emergency vehicles, off-road vehicles

Tech Specs

Voltage	12-24V DC (Auto Ranging)
Humidity	0 to 90% RH
Vibration	10-500Hz
Operating Temp	-40° to +85°C
Ingress Protection	IP67
Dimensions (WxHxD)	4.0x2.70x1.31" (101.6x68.6x33.3mm)

Electrical Characteristics

Characteristic	Min	Typical	Max	Notes
Operating Voltage (12V)	9V	12V	32V	Operating voltage is the system voltage
Factory Standard Disconnect Voltage (12V systems)	12.05V	12.1V	12.15V	When voltage drops below 12.1V, system activates the alarm for one min. and then disconnects loads
Factory Standard Disconnect Voltage (24V systems)	24.1V	24.2V	24.3V	When voltage drops below 24.2V, system activates the alarm for one min. and then disconnects loads
Quiescent Current		1mA	2mA	Circuit operating current
Load Current			10A	
Overcurrent Protection		15A		System will disconnect after 1 second of excessive current
Factory Standard Key-Off Timer		15 min		After key-off, unit will wait a set time before disconnecting

Environmental Specifications

Characteristic	Parameter	Notes
Operating Temperature Range	-40° to +85°C -40° to +185°F	10A at 85°C
Ingress Protection	IP67	Per IEC 529
Humidity	0 to 90% RH	
Vibration	10-500Hz	Per SAE J1455
Shock		Per SAE J1455
Thermal Shock		Per SAE J1455
Inductive Transient	+/- 600V	Per SAE J1455
Load Dump	+150V	Per SAE J1455



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