

**PATENT
PENDING**



Prevents auxiliary loads from draining batteries, maximizing operational readiness by eliminating dead batteries, reducing total lifetime cost of vehicle use.

Ensures power after engine off or at end of shift (video downloads) is available while automatically turning off after a preset time or if battery voltage is low.

Protects sensitive on-board electronics via optional under/over voltage shutdown and start event isolation.

Adjustable Time Delay: 0 sec - 4 hr
Optional Voltage Sense On/Off Trigger
Adjustable Low Voltage Off Trigger
Dip Switches On Top Side of Device

EXPERTLY ENGINEERED



Ultra-Low Power Draw: Lowest off-state current draw in industry (1.3 mA).



Flexible Application Options: Install as a Time Delay Relay, Battery Management Relay, Low Voltage Disconnect, or Simple Relay. On/Off trigger via external Ignition signal and/or alternator voltage sense and adjustable low voltage protection levels increase flexibility



Simple & Robust Installation: Sealed plug/harness included. Combined timer & high-amp relay reduces install time/costs. Optional output bus bar connects RT or CT fuse blocks.



Adjustable Optional OFF Time Delay: 0 seconds to 4 hours.



Diagnostic Feedback via optional external led and on-board LEDs



Bullet-proof Construction: Sealed unit, high temperature materials allow mounting anywhere on vehicle. Integrated thermal overload protection



Optional Kill Switch eliminates need for using thermal circuit breakers as service maintenance switches, reducing voltage drop to electrical loads.



Meets Stringent OEM Standards for electrical transient self-protection



4 Year Industry Leading Warranty

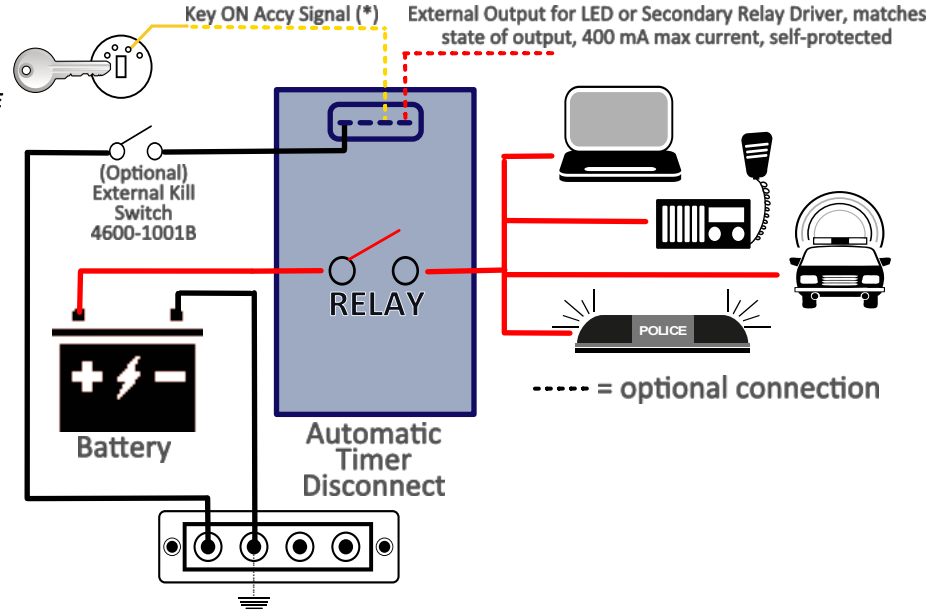
System Diagram / Dip Switches

*** DISCONNECT BATTERY FROM POWER DISTRIBUTION SYSTEM BEFORE INSTALLING PRODUCT TO PREVENT ELECTRICAL SHOCK OR PRODUCT DAMAGE**
**** USE OF IGNITION SIGNAL STRONGLY RECOMMENDED FOR ALL FIRST RESPONDER INSTALLATIONS TO ENSURE RAPID ON & WITHSTAND ADVERSE ELECTRICAL SYSTEM CONDITIONS**

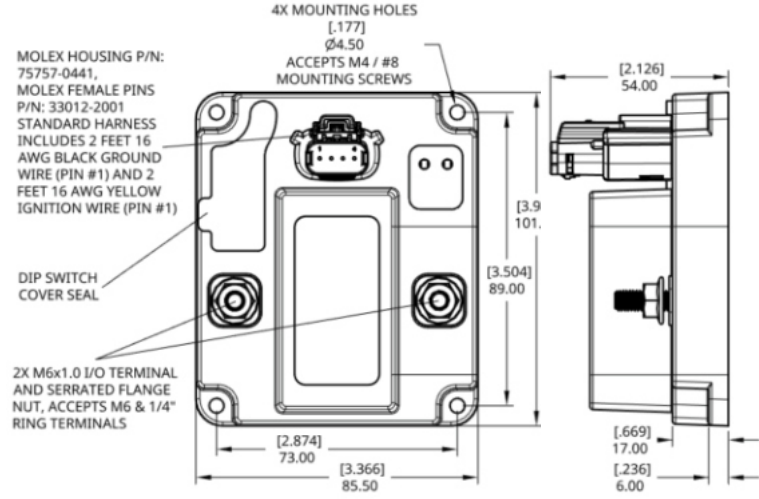
| | | | | |
|---|------------|---|-----|---|
| 4 | LED OUT + | 8 | OFF | 1 |
| 3 | KEY ACCY + | 7 | ON | |
| 2 | | 6 | | |
| 1 | GROUND | 5 | | |

| | |
|--------------------|----------------|
| Disconnect Voltage | OFF Time Delay |
| 5 4 3 2 1 | 3 2 1 |
| 12.0 | 4 HR |
| 11.5 | 2.0 HR |
| 11.0 | 1.5 HR |
| OFF | 1 HR |
| Not Used | 30 MIN |
| BAT 1 Charge Sense | 15 MIN |
| 8 7 6 | 5 SEC |
| OFF | 0 SEC |
| ON | |

DS1-DS3 sets delay between Off Trigger and Relay OFF. 0 SEC is for install testing or pure relay functionality without time delay
DS4-DS5 defines LVD disconnect voltage (15 sec delay, overrides time delay)
DS6 determines if input stud Voltage Sense will trigger Relay ON/OFF events.



Dimensions



Specifications

| | |
|----------------------------------------|--------------------|
| Nominal Voltage | 12 Vdc |
| Input Voltage Range | 8-18 Vdc |
| Continuous Current | 160 Amps |
| Max 5 Min Current | 240 Amps |
| Operating Current | 340 mA |
| Operating Current, Relays Open | 1.3 mA |
| Cable Size to Meet Ratings | 2 AWG |
| Maximum Cable Size | 2/0 AWG |
| Hardware Material | Stainless Steel |
| Terminal Stud Torque | 80 in-lbs |
| Time Delay Range (Adjustable) | 0 sec - 4 hrs |
| Close Voltage Setting | 12.9 Vdc |
| Open Voltage Setting | 12.75 Vdc |
| Under Voltage Protect Options (15 sec) | 11.0/11.5/12.0 Vdc |
| Over Voltage Protection (15 sec) | 16.0 Vdc |

Methods of Operation

- Relay closes immediately if:**
- 1) Key Ignition Input > 8 Vdc and Input Stud Voltage > DS4/DS5 LVD Setting or
 - 2) V_{sense} = On and Input Stud Voltage > V_{Close} Voltage Setting
- Relay opens after DS1-DS3 Time Delay setting if:**
- 1) Key Ignition Input < 8 Vdc and V_{sense} = Off or
 - 2) Key Ignition Input < 8 Vdc and V_{sense} = On and Input Stud Voltage < V_{Open} Trigger Voltage
- UV / OV (Under-voltage / Over-voltage) Protection:**
- 1) Relay opens if Input Stud Voltage < DS4/DS5 LVD Setting for 15 sec or > 17.5 Vdc. (turns OFF relay regardless of Key ON Accy Signal)
- External Pin #4 Driver for LED/Ext Device Matches State of Relay.**
 +Vdc when relay is Closed, Open/No Connect When Relay is Open

Part Numbers

| | |
|----------------------------------------------|------------|
| ATD w/2' 4 Wire Harness, Retail / Resell Box | 7615 |
| ATD w/2' Gnd/Key In Harness, Bulk / OEM Pack | 7615B |
| Kill Switch Kit for ATD | 4600-1001B |

* Contact us for custom product configurations including stud sizes, control harness wires, time delays, voltage settings, dip switch functionality, and control input functionality.



3135 Mercer Ave, Suite 102
 Bellingham, WA 98225
 360.768.1211
 sales@egismobile.com