

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

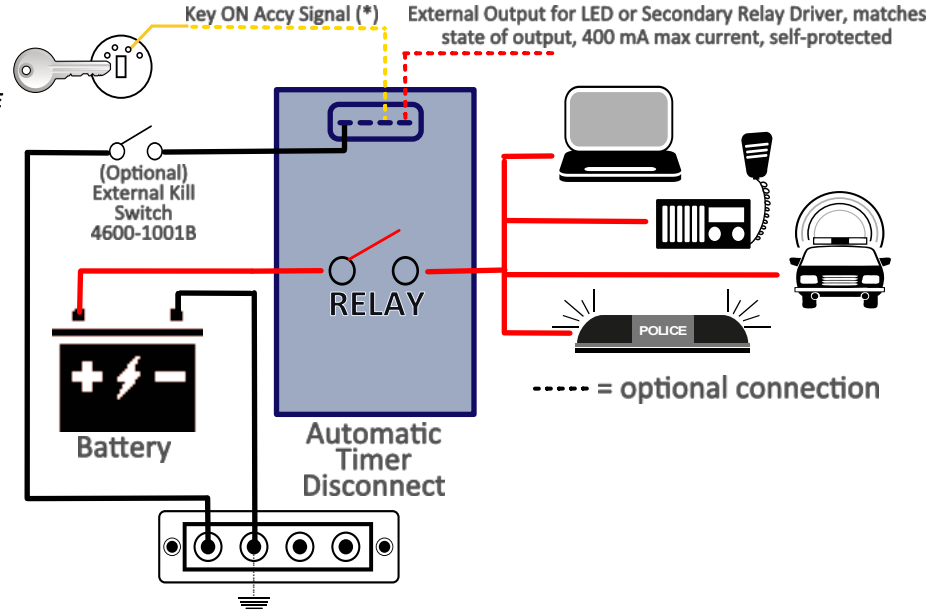
System Diagram / Dip Switches

*** 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**

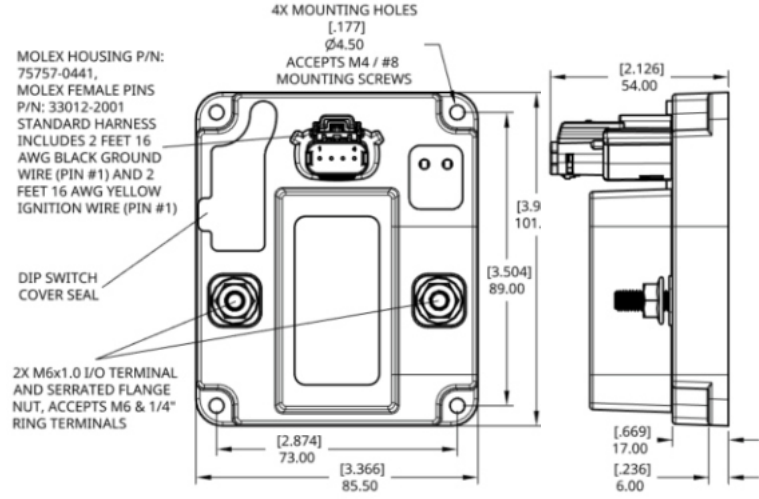
4	LED OUT +	8	OFF	1
3	KEY ACCY +	7	ON	
2		6		
1	GROUND	5		

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.



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