

PATENT
PENDING

Prevents add-on equipment from draining batteries, maximizing operational readiness by eliminating dead batteries.

Ensures equipment that needs power after engine off or at end of shift (video downloads) are satisfied while automatically turning off after a preset time or optionally if battery charge is low.

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



EXPERTLY ENGINEERED

PREFERRED BY PROFESSIONALS



Ultra-Low Power Draw eliminates vehicle downtime due to dead batteries. Lowest off-state current draw (1.3 mA).



Simple & Robust Installation: Sealed plug with optional long wire leads. Single device reduces installation time and costs and points of potential failure



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



Meets Stringent OEM Standards for electrical transient self-protection



Adjustable OFF Time Delay: 15 minutes to 16 hours + 5 sec test mode



Start Isolation / Kill Switch control input option for service technicians, emergency OFF, or protecting sensitive add-on equipment from engine cranking voltage fluctuation.



Flexible Control Options via Ignition Key, alternator voltage sense, or both.



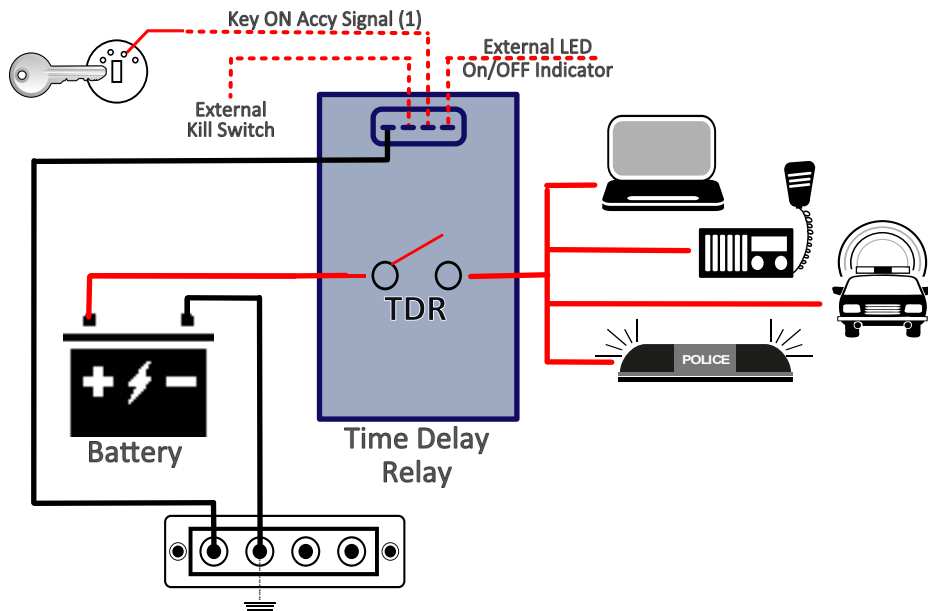
4 Year Industry Leading Warranty

System Diagram / Dip Switches

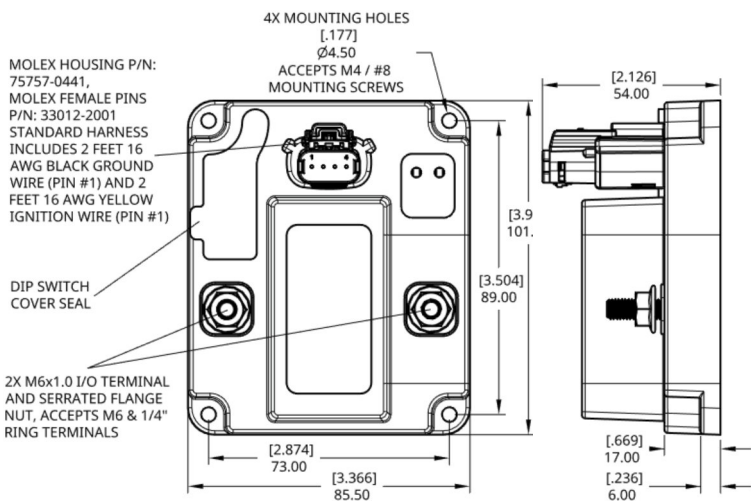
DIP SWITCHES

<input type="checkbox"/> 8	UV / OV Lock	CUMULATIVE
<input type="checkbox"/> 7	V SENSE	
<input type="checkbox"/> 6	8 HOURS	
<input type="checkbox"/> 5	4 HOURS	
<input type="checkbox"/> 4	2 HOURS	
<input type="checkbox"/> 3	1 HOUR	
<input type="checkbox"/> 2	30 MINUTES	
<input type="checkbox"/> 1	15 MINUTES	

- 1) Use of Ignition Key On signal strongly recommended for all first responder installations to ensure rapid relay ON and maximize vehicle up-time in adverse situations.
- 2) Delay between Off Trigger and Relay OFF set with Dip Switches 1-6. Time Delay is cumulative (if DS1 and DS2 are On, Delay = 45 minutes).
- 3) If DS1 through DS6 = Off, Time Delay = 5 seconds for testing and operational verification



Dimensions



Specifications

Nominal Voltage	12 Vdc
Input Voltage Range	8-18 Vdc
Continuous Current (Per Circuit / Total)	80 A / 160 A
Max 5 Min Current (Per Circuit / Total)	125 A
Operating Current (Per Circuit)	170 mA
Operating Current, Relays Open	1.4 mA
Cable Size to Meet Ratings	2 AWG
Maximum Cable Size	2/0 AWG
Hardware Material	Stainless Steel
Terminal Stud Torque	100 in-lbs
Time Delay Range	5 sec - 48 hrs
TDR Close / Open Voltage	13.3 / 13.0
ACR Close / Open Time Delay	30 s / 30 s
ACR Close / Open Voltage	13.6 / 12.8
Low Voltage Setting Options (15 sec)	11.0/11.5/12.0
Over Voltage Protection (1 sec)	16.5 Vdc

Methods of Operation

- Relay closes immediately if:
- 1) Key Ignition Input > 8 Vdc or
 - 2) V_sense = On and Input Stud Voltage > 13.3 Vdc
- Relay opens after 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 < 12.8 Vdc
- UV / OV Lock (Under-voltage / Over-voltage Protection):
- 1) If ON, will turn off Relay if Input Stud Voltage < 10.5 Vdc or > 17.0 Vdc for 15 Sec
 - 2) Will turn OFF relay regardless of Key Input
- Kill Switch input opens Relay immediately, will override all other relay ON indicator

Part Numbers

TDR w/2' Gnd/Start Harness, Retail / Resell Box	6001-3001
TDR w/2' Gnd/Start Harness, Bulk / OEM Pack	6001-3001B

* Contact Egis Mobile Electric 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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