EGIS MOBILE ELECTRIC

PT Series Solid State Relay
One Shot w/Optional On Delay

Enables orderly turn on outputs minimizing operator interaction. Turning an output On based on either a rising or falling voltage from an input line

Delivers a reliable output power after an optional programmable amount of time (On Delay), the duration of power output time is also programmable.

High Amperage design lessens the need for additional relays and complicated wiring.

One Shot ON provides single turn on event per voltage trigger for desired loads. After One Shot Time is competed, the control input will need to generate a new “rising” or “falling” edge in order for a subsequent “shot” to be triggered.

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

Adjustable Time Delay Before Output Turns ON (0 sec - 30 sec) allows for flexibility in system implementation to meet specific timing requirements.

Diagnostic Feedback via on-board multi-color LEDs

Meets Stringent OEM Standards for electrical transient self-protection

Adjustable ON Duration: (1 sec - 20 sec) provides flexibility for systems with different power delivery duration requirements.

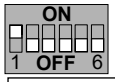
Bullet-proof Construction: Sealed unit, high temperature materials allow mounting anywhere on vehicle. Integrated thermal overload protection

4 Year Industry Leading Warranty

Dip Switch Setting Options & Features

**** DISCONNECT BATTERY FROM POWER DISTRIBUTION SYSTEM BEFORE INSTALLING PRODUCT TO PREVENT ELECTRICAL SHOCK OR PRODUCT DAMAGE***

***** Use of Ignition On signal strongly recommended for all first responder installs to ensure rapid relay ON and maximize up-time in adverse situations.***



ON Time Delay (1 2 3)	
0 sec	
1 sec	
2 sec	
5 sec	
10 sec	
15 sec	
20 sec	
30 sec	

= Factory Default

ON Time (4 5)	
1 s	
3 s	
10 s	
20 s	

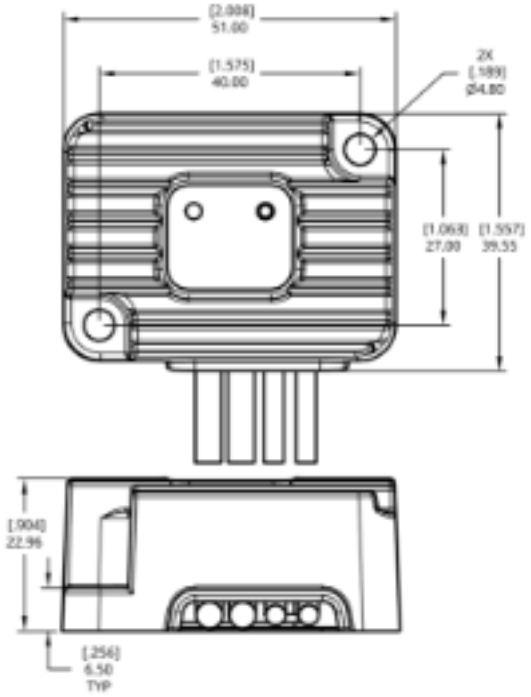
Trigger (6)	
Rise	
Fall	

DS1-DS3: Determines time delay between registering a Trigger signal on the yellow control input and the Output of device turning on (+Vdc) per table to the left. Each combination of three dip switches (on or off) result in a unique On time Delay

DS4-DS5: Determines the Output ON duration before the device automatically turns the output OFF per table to the left. Once output is OFF, it can not be turned on until a new Trigger signal is received.

DS6: Determines the type of Trigger signal on the yellow control input wire which will trigger the ON Time Delay. The Rise setting will register a Trigger when the input wire voltage has changed from O Vdc / Floating to +Vdc. The Fall setting will register a Trigger when the input wire voltage has changed from +Vdc to O Vdc / Floating

Dimensions



Methods of Operation

Output turns On after On Time Delay Setting (DS1-DS3) if:

1) DS6 = ON and Yellow Input Wire Voltage Rises from less than 8.0 Vdc to greater than 10 Vdc or

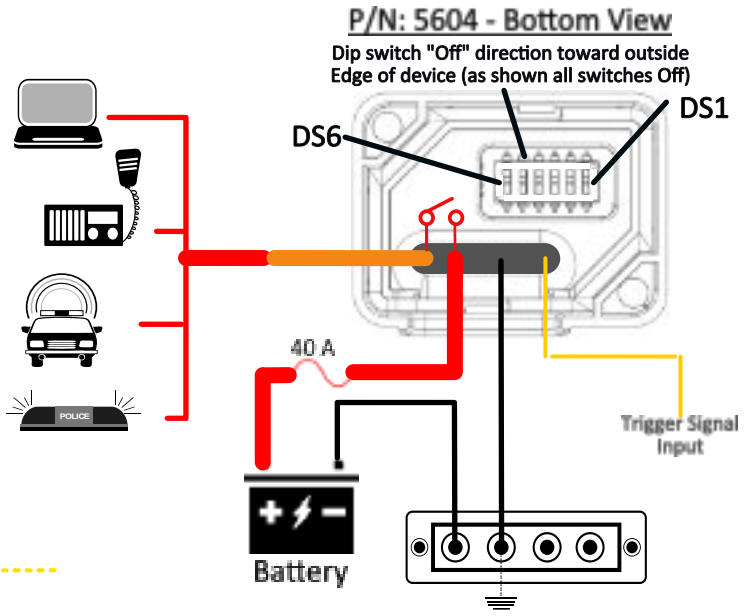
2) DS6 = OFF and Yellow Input Wire Voltage Falls from greater than 10 Vdc to less than 10 Vdc

Output Turns OFF after ON Time Setting (DS4 - DS5)

Device is a "One Shot" Relay, and Responds ONLY to the Designated Rising or Falling Voltage on the Yellow Control Signal Wire.

Additional One Shot ON Events Require the Yellow Input Signal to Change Voltage State Twice Before Triggering Again. Example: A Rising Edge programmed 5604 will not re-close the output after a successful "One Shot:, until the control signal voltage drops back below 8.0 Vdc and then the voltage Rises back to above 10.0 Vdc

System Diagram



Specifications

Nominal Voltage (Vdc)	12
Input Voltage Range (Vdc)	8.0-18.0
Max Continuous Current (Amps)	30
Installed Fuse (Ampere Rating)	40
Over Voltage Protection (Vdc) (15 sec)	17.0
Operating Current Draw (mA)	15
Operating Current (mA) Standby / Open	1.3
Input Wire Size (Red)	12 AWG / 18 in.
Output Wire Size (Orange)	12 AWG / 24 in.
Ignition Wire Size (Yellow)	18 AWG / 24 in.
Ground Wire Size (Black)	18 AWG / 24 in.
Housing Material	Glass-Filled Polycarbonate
Min Source Current (Yellow Signal Wire)	10 micro-Amps

Part Numbers

	Bulk Pack
PT Series On Delay One Shot Relay	5604B

***** Custom configurations available including control harness wires, time delays, voltage settings, dip switch functionality, and control input functionality. Low minimum quantities and short lead time for samples or production. Contact us at support@egismobile.com for more information

Related Part Numbers

	Resell Pack	Bulk Pack
PT Series 12V/30A On Delay Relay		5603B
PT Series 12V/30A Off Time Delay Relay		5601B
PT Series 24V/30A Off Time Delay Relay		5601-24B
RT Series 6 Position Fuse Block	8028	8028B
RT Series 6 Pos Fuse Block w/Gnd	8025	8025B

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