

PROGRAMMABLE ENGINE TIMER

The ECU-PMTN programmable timer can do almost any engine or automation timing requirement. There are four course timing ranges and fine adjust in each range. In addition, the timer is epoxy encapsulated with hermetically sealed relays. The ECU-PMTN has a SPDT contact output.

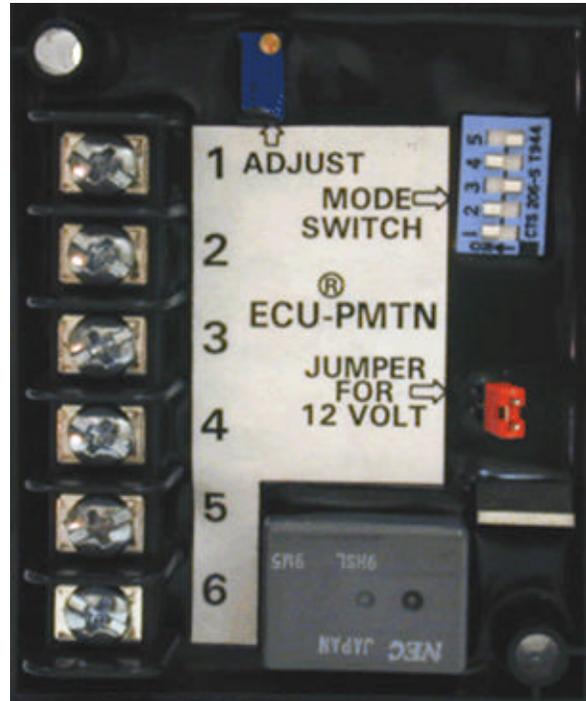
ECU® -PMTN

ONE VERSION FOR
12 AND 24 VDC

APPLICATIONS: System Automation, Engine Systems

FEATURES:

- Programmable operating mode
- Form C Relay output
- Uses no power in the off mode
- Adjustable time range
- Wide temperature range -40C to +85C
- Epoxy encapsulated module for excellent field reliability
- Compact module for easy mounting



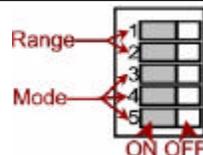
ECU® -PMTN A PROGRAMMABLE TIMER FOR ENGINE USE

The ECU-PMTN is specifically designed for engine system use and can replace up to 13 types of engine timers. To the right is a table showing the various switch positions and the resulting operation modes.

The operating mode is determined by setting three switches (SW1, SW2 and SW3).

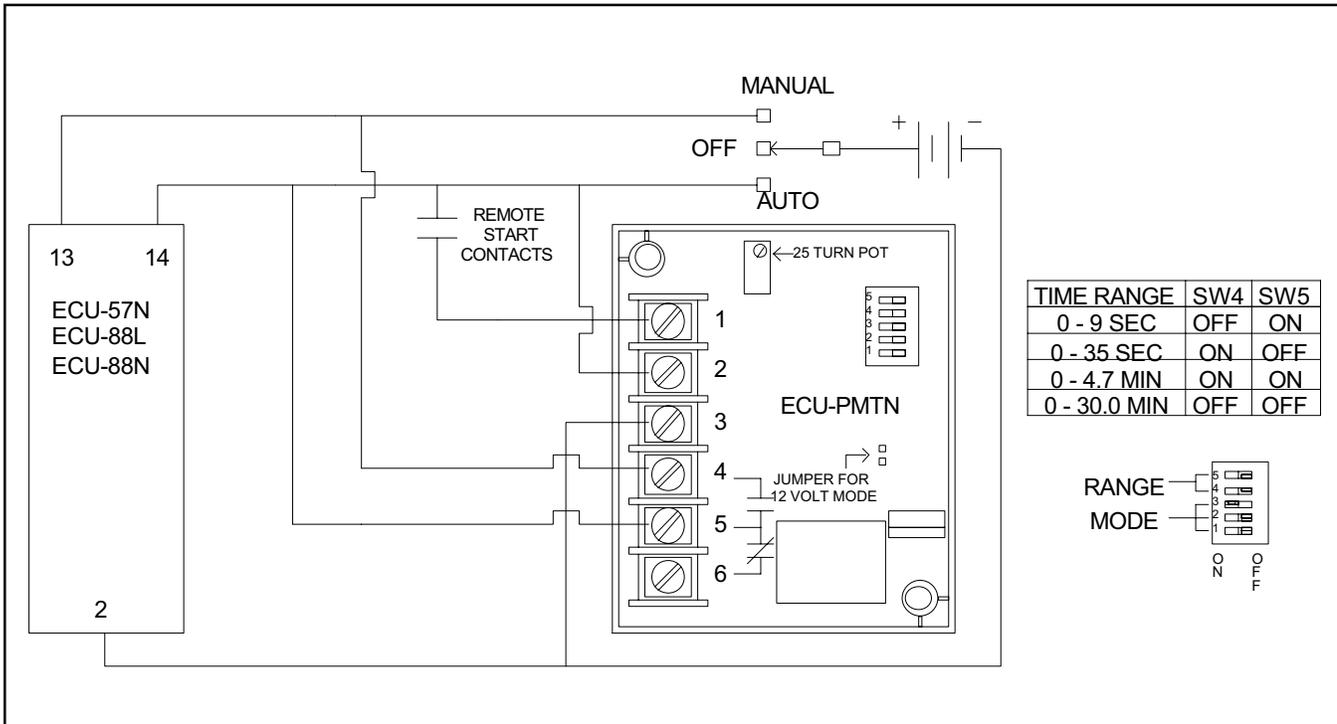
The delay time can be adjusted by using switches SW4 and SW5 on the mode

OPERATING MODE	SW1	SW2	SW3
Cool Down Timer	OFF	OFF	ON
Warm Up Timer	ON	ON	ON
Rack Timer	OFF	OFF	ON
Full Throttle Timer	ON	ON	ON
Delay On Make Timer	ON	ON	ON
Delay On Release Timer	OFF	OFF	ON
Delay On Start Timer	ON	ON	ON
Crank Cycle Timer	ON	OFF	OFF
Flasher Timer On-Off-On	ON	OFF	OFF
Flasher Timer Off-On-Off	ON	ON	OFF
Shutdown Solenoid Timer	OFF	OFF	ON
One Shot Timer	ON	OFF	ON
Cranking Limit Timer	ON	ON	ON



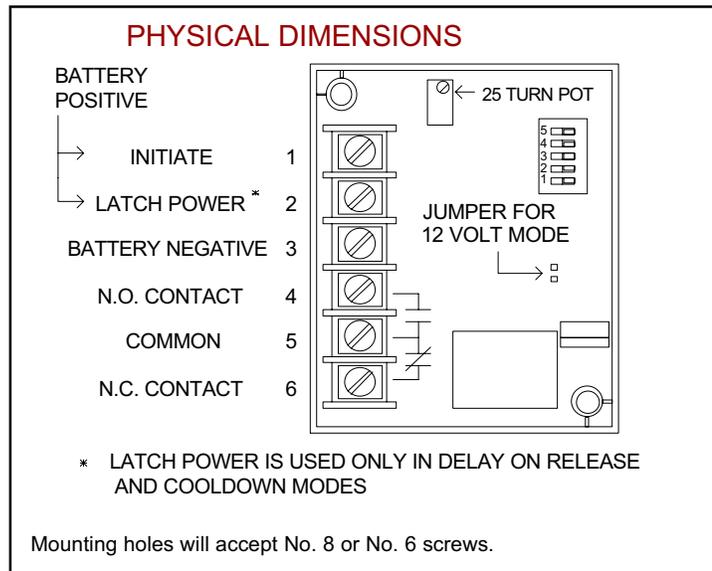
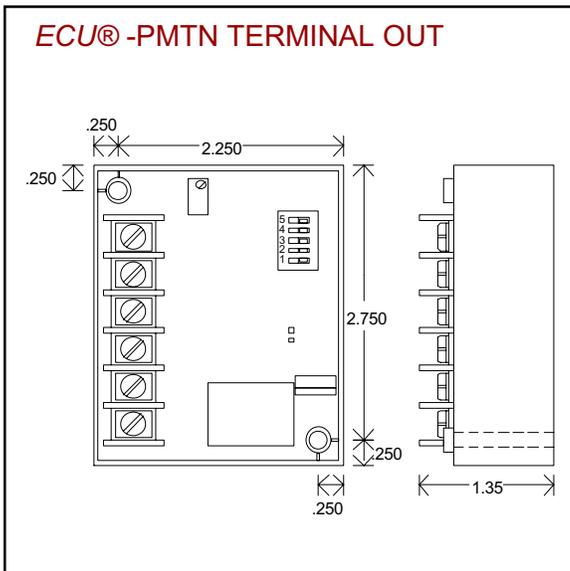
TIME RANGE	SW4	SW5
0-9 sec	OFF	ON
0-35 sec	ON	OFF
0-4.7 min	ON	ON
0-30 min	OFF	OFF

**SAMPLE ECU®-PMTN APPLICATION:
ENGINE COOLDOWN CYCLE**



The above example shows the ECU-PMTN timer used for the cooldown function. The ECU-PMTN is connected between the remote start contacts and the engine control. While in the auto mode if the remote start contacts close, voltage will be applied to terminal 2 and cause the relay to operate thus causing the engine control to start the engine via 4 and 5. As long as the remote start contacts remain closed the engine will continue to run. When the remote start contacts open (signfying the load has been removed) the ECU-PMTN will continue to run the engine until the adjustable time period is over.

SPECIFICATIONS: 12 VOLT MODE - 9 TO 15 VOLTS
 24 VOLT MODE - 19 TO 28 VOLTS
 OUTPUT RATING - 10 AMPS MAX AT 28 VDC RESISTIVE



ORDERING INFORMATION:
 ORDER BY SPECIFYING: ECU® -PMTN

ECU® IS A REGISTERED TRADEMARK OF
 ENGINEERING CONCEPTS UNLIMITED, INC.