

PDM 32

All names in this document have the type in capitals as the last characters in the name.

StartStopDI is a Digital Input.

StrtEng SV is a Status Variable.

Starter O is an Output.

Start/Run engine button

This document explains how to set a Start/Run button on the pdm32.

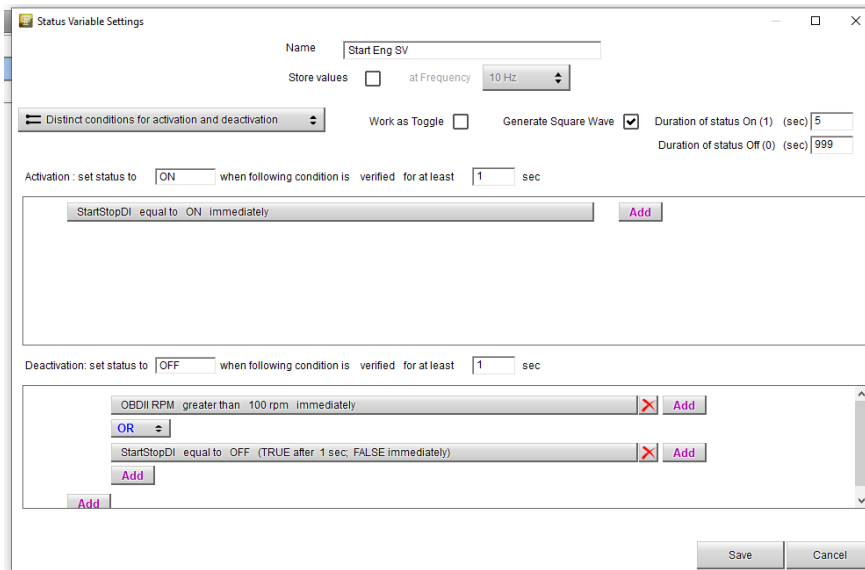
The starter needs to be connected to High Power 1 connector.

In this example Digital input 9 (StartRun DI) will connect to ground to turn on .

The screenshot shows the 'Channel Settings' dialog box for a channel named 'StartStopDI'. The 'Function' is set to 'Digital Status', the 'Sensor' is 'Status', and the 'Sampling Frequency' is '20 Hz'. The 'Logged' checkbox is checked. Under 'Active when signal is:', the 'close to ground' radio button is selected, and the 'use internal pull up 10kΩ' checkbox is checked. The 'Momentary' radio button is also selected. The 'Not active label' is 'OFF' and the 'Active label' is 'ON'. The 'Save' and 'Cancel' buttons are at the bottom right.

| | |
|------------------------|---|
| Name | StartStopDI |
| Function | Digital Status |
| Sensor | Status |
| Sampling Frequency | 20 Hz |
| Logged | <input checked="" type="checkbox"/> |
| Active when signal is: | <input checked="" type="radio"/> close to ground <input type="radio"/> close to VBatt |
| | <input checked="" type="checkbox"/> use internal pull up 10kΩ |
| | <input type="radio"/> Momentary <input checked="" type="radio"/> Toggle <input type="radio"/> Multiposition |
| | <input type="checkbox"/> use as button with pressure time dependent status |
| Not active label | OFF [0] |
| Active label | ON [1] |

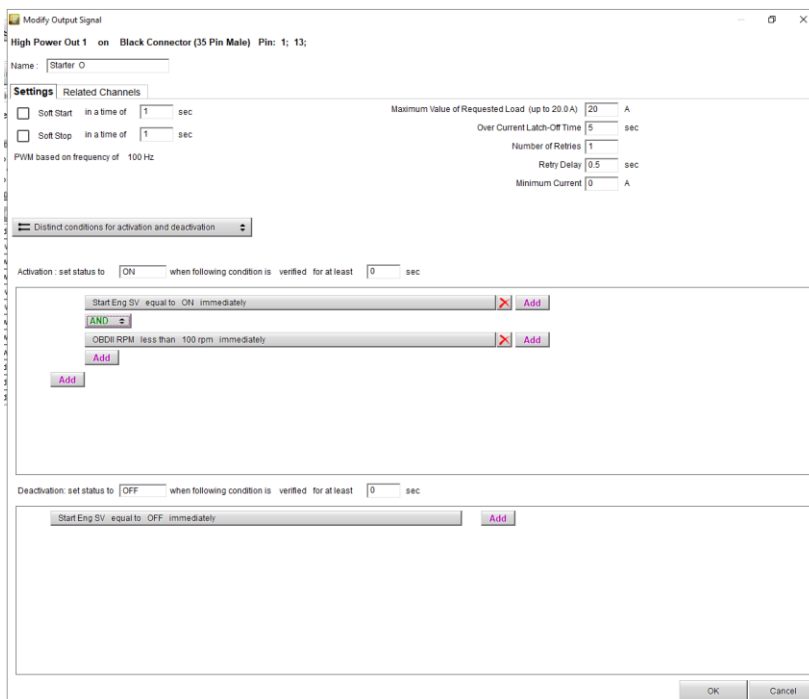
The StartEng SV is setup like this



Power to the Starter will be for 5 seconds or less.

Power is withdrawn if RPM is greater than 100, or the StartStop DI is pressed again.

The Starter O is set as shown below.



Other equipment which should be on when the engine is on can be set to start on their own output when Start/Run DI is ON, example ECU Power.

To prevent draining of the battery you can have the Alternator start only when RPM is greater than 100.