**SS200 Dash Mounted Speed Switch**

*Tachometer, Hour Meter, Volt Meter, Automatic Feed Controller*

**FEATURES**

- **Bright LED Display**
  Easy to read, four-digit LED for tachometer display and setup information. Bright individual LEDs indicate output status.

- **Easy Field Adjustment**
  3-key rugged touchscreen interface for fast and secure field adjustment. Factory calibration settings protected from operator.

- **Fast Commissioning**
  Infrared remote setup. Program settings and default quickly using any Sony™ television compatible remote control.

- **Environmentally Sealed**
  Rugged sealed enclosure for harsh off-highway applications.

- **Solid State Electronics**
  Touchpad technology outlasts mechanical pushbuttons in harsh environments. Solid state outputs survive countless operations and eliminate wear.

**APPLICATIONS**

- **Feed Controller**
  Automatic feed control for grinders, crushers, chippers, shredders and other equipment. Prevents damage from engine stall or overload.

- **Instrument**
  Tachometer, hour meter, and volt meter in one dash-mount package.

- **Interlock**
  Prevent engagement of PTO when engine RPM is below minimum requirement.

- **Rev Limiter**
  Disable throttle up input on cruise control module when maximum desired RPM is reached.

**OPERATION**

**Field Operation**

Normal operation:
Press “O” button to toggle between RPM display, hours, or volts.

Output control (on/off):
Press and hold “+” button for 3 seconds to enable outputs.
Press and hold “-” button for 3 seconds to disable outputs.

Programming:
Press and hold “O” button for 3 seconds to enter programming mode. Press “O” button momentarily to select parameter to adjust.
Press “+” and “-” buttons to change setting. Adjustable parameters include high and low set points, and reverse time if applicable.

**Factory Calibration**

Factory calibration is performed quickly and easily using any Sony™ television compatible infrared remote control. Factory calibrations include number of teeth for pulse pickup, mode of operation, and all field adjustable parameters.

Press TV on remote to select television mode.
Press POWER 5 times in 2 seconds to enter programming mode.
Press CHANNEL +/- to select parameter to adjust.
Press VOLUME +/- to change value.
Press number keys to enter values directly.
Press ENT to save and exit programming mode.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS200</td>
<td>Dash mount tachometer and feed controller</td>
</tr>
<tr>
<td>SS200-ICT</td>
<td>Infrared commissioning tool</td>
</tr>
</tbody>
</table>

SS200 is easily set up with any Sony™ IR remote control.
### SPECIFICATIONS

#### General
- **Power requirement**: 9-15vdc, 500mA nominal + power to loads
  - 24vdc version available

#### Outputs
- **Solid State Sourcing**: 5-amps max

#### Sensor Input
- **Type**
  - Magnetic pickup, 5-30vpp AC
  - Proximity switch, open drain
- **Frequency Range**: 10 to 10,000Hz

#### Performance
- **Response Time**: 1/10th second
- **Accuracy**: 10Hz
- **RPM Range**: 0 to 9,999 RPM

#### Interface
- **Touchpad menu interface for field operation**
- **Infrared receiver for factory commissioning**

#### Display
- **Type**: 4-digit LED
- **Parameters**: RPM, Volts, Hours, settings
- **Output Status**: 3 x LED

#### Mounting
- **Mounts in 3.25” round hole**
- **Mounting bracket, hardware, gasket included**

#### Environmental
- **Storage**: -40°C to 85°C
- **Operating**: -40°C to 60°C

### MODES

<table>
<thead>
<tr>
<th>MODE</th>
<th>OUTPUT</th>
<th>BELOW LOW-SET</th>
<th>BETWEEN LOW AND HIGH</th>
<th>ABOVE HIGH-SET</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>OUT1</td>
<td>ON</td>
<td>DEADBAND</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>OUT2</td>
<td>NOT USED</td>
<td>NOT USED</td>
<td>NOT USED</td>
</tr>
<tr>
<td>1</td>
<td>OUT1</td>
<td>OFF</td>
<td>DEADBAND</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OUT2</td>
<td>ON FOR REV TIME</td>
<td>OFF</td>
<td>OFF</td>
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<tr>
<td>2</td>
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</tr>
<tr>
<td>3</td>
<td>OUT1</td>
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<td>DEADBAND</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>OUT2</td>
<td>ON</td>
<td>DEADBAND</td>
<td>OFF</td>
</tr>
</tbody>
</table>

**DEADBAND**: Output remains in previous state. If RPM is increasing, output stays in “below low-set” state. If RPM is decreasing, output stays in “above high-set” state.

Other factory programmable modes possible.