Wheel.lvlib:Wheel_Set_Value.vi

Help by FRC Team 836 - The RoboBees

This VI sets the Revolutions Per Minute (RPM) of a wheel.
Shooter Wheel DevRef Out

Shooter Config reference
Shooter Data

MotorControlDevRef

DeviceStatus

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

code

code is the error or warning code.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

source

source describes the origin of the error or warning.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

Type

PWM
### PWM Channel

<table>
<thead>
<tr>
<th>DeadBand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
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</table>

| maxPositivePwm |
| minPositivePwm |
| centerPwm     |

| maxNegativePwm |
| minNegativePwm |

**angularRange**

### CAN

| Device Number |
| Control Mode  |

**Semaphore**

*semaphore* is a reference to an existing or newly created semaphore.
**Max Vout**

**TalonSRX Control Mode**

**Control Mode** specifies how the Talon SRX will control the motor. Percent VBus is the standard open-loop mode that is also accessible via the PWM interface on the Talon SRX.

**Invert**

**Set Point**

**Actual**

**RPM Desired**

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This VI sets the Revolutions Per Minute (RPM) of a wheel.

WPI_MotorControlType.ctl

C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\WPI\MotorControl\WPI_MotorControlType.ctl
Wheel.lvlib:Data.ctl

C:\Program Files (x86)\National Instruments\LabVIEW 2015\user.lib\836-Library\Motion Control\Shooter_Wheel\Data.ctl

WPI_CANTalonSRX_APIControlMode.ctl

C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\RockRobotics\WPI\CAN\TalonSRX\WPI_CANTalonSRX_APIControlMode.ctl

WPI_CANJaguar_ControlMode.ctl

C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\RockRobotics\WPI\CAN\Jaguar\SubVIs\WPI_CANJaguar_ControlMode.ctl

WPI_MotorControlDeviceRef.ctl

C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\RockRobotics\WPI\MotorControl\WPI_MotorControlDeviceRef.ctl

Semaphore RefNum

C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Utility\semaphor.llb\Semaphore RefNum

WPI_PWMDeadband.ctl

C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\RockRobotics\WPI\PWM\WPI_PWMDeadband.ctl

Wheel.lvlib:WheelControl.ctl

C:\Program Files (x86)\National Instruments\LabVIEW 2015\user.lib\836-Library\Motion Control\Shooter_Wheel\WheelControl.ctl
FPGA_DIOPWMChannel.ctl

Wheel.lvlib:Config.ctl

"Wheel.lvlib:Wheel_Set_Value.vi History"

Current Revision: 14

Position in Hierarchy
Iconified Cluster Constants