Overview Package Class Tree Deprecated Index Help

 Prev Class
 Next Class
 Frames
 No Frames
 All Classes

 Summary: Nested | Field | Constr | Method
 Detail: Field | Constr | Method

com._604robotics.utils

Class Gyro360

java.lang.Object edu.wpi.first.wpilibj.SensorBase edu.wpi.first.wpilibj.Gyro com._604robotics.utils.Gyro360

All Implemented Interfaces:

IDevice, ISensor, PIDSource

public class Gyro360
extends Gyro
implements PIDSource

Extender class to constrain the output of a Gyro to 360 degrees, looping.

Author:

Michael Smith

Field Summary

Fields inherited from class edu.wpi.first.wpilibj.SensorBase

 $\verb|kAnalogChannels, kAnalogModules, kDigitalChannels, kPwmChannels, kRelayChannels, kSolenoidChannels, kSolenoidModules, kSystemClockTicksPerMicrosecond|\\$

Constructor Summary

Constructors

Constructor and Description

Gyro360 (AnalogChannel channel)

Initializes a new Gyro360 on the specified AnalogChannel.

Gyro360 (int port)

Initializes a new Gyro360 on the specified PWM port.

Gyro360 (int slot, int port)

Initializes a new Gyro360 on the specified PWM port on the specified module port.

Method Summary

Methods

Modifier and Type	Method and Description
double	<pre>getAngle()</pre>
	Gets the angle of the gyro, constrained to 360 degrees.
double	<pre>pidGet()</pre>
	Implements the pidGet() function in the type PIDSource, allowing this class to be used as such.

Methods inherited from class edu.wpi.first.wpilibj.Gyro

free, reset, setSensitivity

Methods inherited from class edu.wpi.first.wpilibj.SensorBase

checkAnalogChannel, checkAnalogModule, checkDigitalChannel, checkDigitalModule, checkPWMChannel, checkPWMModule, checkRelayChannel, checkRelayChannel, checkSolenoidChannel, checkSolenoidModule, getDefaultAnalogModule, getDefaultDigitalModule, getDefaultSolenoidModule, setDefaultAnalogModule, setDefaultSolenoidModule

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Gyro360

public Gyro360(int port)

Initializes a new Gyro360 on the specified PWM port. Note that port must be 1 or 2!

Parameters:

port - The PWM port the gyro is plugged into. Must be 1 or 2!

Gyro360

Initializes a new Gyro360 on the specified PWM port on the specified module port. Note that port must be 1 or 2!

Parameters:

slot - The module slot the gyro is plugged into.

 ${\tt port}$ - The PWM port the gyro is plugged into. Must be 1 or 2!

Gyro360

public Gyro360(AnalogChannel channel)

Initializes a new Gyro360 on the specified AnalogChannel. Note that port must be 1 or 2!

Parameters:

channel - The AnalogChannel the gyro is plugged into.

Method Detail

getAngle

public double getAngle()

Gets the angle of the gyro, constrained to 360 degrees.

Overrides:

 $\verb"getAngle" in \verb"class" Gyro"$

Returns:

The angle of the gyro, constrained to 360 degrees.

pidGet

public double pidGet()

Implements the pidGet() function in the type PIDSource, allowing this class to be used as such.

Specified by:

pidGet in interface PIDSource

Overrides:

pidGet in class Gyro

Returns:

The angle of the gyro, constrained to 360 degrees.

Overview Package Class Tree Deprecated Index Help

Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method