

com._604robotics.utils

Class DeadbandedSource

java.lang.Object
com._604robotics.utils.DeadbandedSource

All Implemented Interfaces:

PIDSource

```
public class DeadbandedSource
extends Object
implements PIDSource
```

Implements a PIDSource, wrapping around another PIDSource, with a deadband range. If we're within the deadband, it'll tell the PIDController we're at where it wants to be.

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Constructor Summary

Constructors

| Constructor and Description |
|--|
| <code>DeadbandedSource(PIDSource source)</code> Initializes a new DeadbandedSource. |

Method Summary

Methods

| Modifier and Type | Method and Description |
|-------------------|--|
| double | <code>pidGet()</code> Hooks into PIDSource - gets the value to send to the PIDController. |
| void | <code>setController(PIDController controller)</code> Sets the PIDController the source is fed into. |
| void | <code>setDeadband(double lowerDeadband, double upperDeadband)</code> Sets the range for the deadband. |

Methods inherited from class java.lang.Object

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

Constructor Detail

DeadbandedSource

```
public DeadbandedSource(PIDSource source)
```

Initializes a new DeadbandedSource.

Parameters:

source - The underlying PIDSource to wrap around.

Method Detail

setController

```
public void setController(PIDController controller)
```

Sets the PIDController the source is fed into.

Parameters:

`controller` - The PIDController the source is fed into.

setDeadband

```
public void setDeadband(double lowerDeadband,  
                        double upperDeadband)
```

Sets the range for the deadband.

Parameters:

`lowerDeadband` - The lower bound of the deadband.

`upperDeadband` - The upper bound of the deadband.

pidGet

```
public double pidGet()
```

Hooks into PIDSource - gets the value to send to the PIDController. With a deadband!

Specified by:

`pidGet` in interface `PIDSource`

Returns:

The value to send to the PIDController.

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