EV3 Ultrasonic Sensor

Category	Requires	Version
LEGO® MINDSTORMS® > EV3	API 19, Android 4.4 - 4.4.4 KitKat	1

Overview

A component that provides a high-level interface to an ultrasonic sensor on a LEGO MINDSTORMS EV3 robot.

Events

Above Range

Called when the detected distance has gone above the range.

Below Range

Called when the detected distance has gone below the range.

Within Range

Called when the detected distance has gone within the range.

Methods

Get Distance

`Returns: Number`

Returns the current distance in centimeters as a value between 0 and 254, or -1 if the distance can not be read.

Set CM Unit

Measure the distance in centimeters.

Set Inch Unit

Measure the distance in inches.

Properties

Above Range Event Enabled

`Boolean` `Default: False` — `Read` `Write` - `Designer` `Blocks`

Whether the AboveRange event should fire when the distance goes above the TopOfRange.

Below Range Event Enabled

`Boolean` `Default: False` — `Read` `Write` - `Designer` `Blocks`

Whether the BelowRange event should fire when the distance goes below the BottomOfRange.

Bluetooth Client

`Component` — `Read` `Write` - `Designer` `Blocks`

The BluetoothClient component that should be used for communication.

Bottom Of Range

`Number` `Default: 30` — `Read` `Write` - `Designer` `Blocks`

The bottom of the range used for the BelowRange, WithinRange, and AboveRange events.

Sensor Port

`Text` `Default: 1` — `Write` - `Designer`

The sensor port that the sensor is connected to.

Top Of Range

`Number` `Default: 90` — `Read` `Write` - `Designer` `Blocks`

The top of the range used for the BelowRange, WithinRange, and AboveRange events.

Unit

`Text` `Default: cm` — `Read` `Write` - `Designer` `Blocks`

Specifies the unit of distance.

Within Range Event Enabled

`Boolean` `Default: False` — `Read` `Write` - `Designer` `Blocks`

Whether the WithinRange event should fire when the distance goes between the BottomOfRange and the TopOfRange.

Last update: January 26, 2020