DistanceSRF04

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Contents

1 Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

2 Class Documentation

2.1 DistanceSRF04 Class Reference

Public Member Functions

- DistanceSRF04 ()

  DistanceSRF04.cpp - Library for retrieving data from the GP2Y0A21YK IR Distance sensor. For more information: variable declaration, changelog,... see DistanceSRF04.h.
- void begin ()

  Begin function to set default pins.
- void begin (int echoPin, int trigPin)

  Begin variables.
- int getDistanceTime ()

  getDistanceTime(): Returns the time between transmission and echo receive
- int getDistanceCentimeter ()

  getDistanceCentimeter(): Returns the distance in centimeters
- int getDistanceInch ()

  getDistanceInch(): Returns the distance in inches
- boolean isCloser (int threshold)

  isCloser: check whether the distance to the detected object is smaller than a given threshold
- boolean isFarther (int threshold)

isFarther: check whether the distance to the detected object is smaller than a given threshold

- void setAveraging (int avg)

  setAveraging(int avg): Sets how many samples have to be averaged in getDistanceCentimeter, default value is 100.

2.1.1 Constructor & Destructor Documentation

2.1.1.1 DistanceSRF04::DistanceSRF04 ( )

DistanceSRF04.cpp - Library for retrieving data from the GP2Y0A21YK IR Distance sensor. For more information: variable declaration, changelog,... see DistanceSRF04.h.

Constructor

2.1.2 Member Function Documentation

2.1.2.1 void DistanceSRF04::begin ( )

Begin function to set default pins.

2.1.2.2 void DistanceSRF04::begin (int *echoPin,* int *trigPin*)

Begin variables.

- int trigPin: pin used to activate the sensor
- int echoPin: pin used to read the reflection

2.1.2.3 int DistanceSRF04::getDistanceCentimeter ( )

getDistanceCentimeter(): Returns the distance in centimeters

2.1.2.4 int DistanceSRF04::getDistanceInch ( )

getDistanceInch(): Returns the distance in inches

2.1.2.5 int DistanceSRF04::getDistanceTime ( )

getDistanceTime(): Returns the time between transmission and echo receive

2.1.2.6 boolean DistanceSRF04::isCloser (int *threshold*)

isCloser: check whether the distance to the detected object is smaller than a given threshold

2.1.2.7 boolean DistanceSRF04::isFarther (int *threshold*)

isFarther: check whether the distance to the detected object is smaller than a given threshold

2.1.2.8 void DistanceSRF04::setAveraging (int *avg*)

setAveraging(int avg): Sets how many samples have to be averaged in getDistance-Centimeter, default value is 100.

The documentation for this class was generated from the following files:

- /home/jeroen/.dropboxstorage/Dropbox/11-arduino/libraries/srf04-library/DistanceSRF04/DistanceSRF04.h
- /home/jeroen/.dropboxstorage/Dropbox/11-arduino/libraries/srf04-library/DistanceSRF04/DistanceSRF04.cpp

Index