

BB_LTR303ALS01

0.01.000

Generated by Doxygen 1.8.6

Fri Oct 21 2016 10:40:50

Contents

1	Class Index	1
1.1	Class List	1
2	Class Documentation	3
2.1	BB_LTR303ALS01 Class Reference	3
2.1.1	Detailed Description	3
2.1.2	Constructor & Destructor Documentation	3
2.1.2.1	BB_LTR303ALS01	3
2.1.3	Member Function Documentation	3
2.1.3.1	readChannel0	3
2.1.3.2	readChannel1	4
2.1.3.3	readManufacturerId	4
2.2	BB_LTR303ALS01_SETTINGS Struct Reference	4
2.2.1	Detailed Description	4
	Index	5

Chapter 1

Class Index

1.1 Class List

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

BB_LTR303ALS01	3
BB_LTR303ALS01_SETTINGS	4

Chapter 2

Class Documentation

2.1 BB_LTR303ALS01 Class Reference

```
#include <BB_LTR303ALS01.h>
```

Public Member Functions

- [BB_LTR303ALS01](#) (BB_I2C *i2c)
- uint8_t [readManufacturerId](#) (void)
- uint16_t [readChannel0](#) (void)
- uint16_t [readChannel1](#) (void)

2.1.1 Detailed Description

Objects of this class represent a LTR303ALS01

2.1.2 Constructor & Destructor Documentation

2.1.2.1 BB_LTR303ALS01::BB_LTR303ALS01 (BB_I2C * i2c)

Initializes a LTR303ALS01 object.

Parameters

<i>i2c</i>	a reference to a I2C object.
------------	------------------------------

2.1.3 Member Function Documentation

2.1.3.1 uint16_t BB_LTR303ALS01::readChannel0 (void)

Provide the sensor value form channel 0. This channel has its maximum sensitivity at a wavelength = 450nm

Returns

the value read from channel 0

2.1.3.2 `uint16_t BB_LTR303ALS01::readChannel1 (void)`

Provide the sensor value form channel 1. This channel has its maximum sensitivity at a wavelength = 770nm

Returns

the value read from channel 1

2.1.3.3 `uint8_t BB_LTR303ALS01::readManufacturerId (void)`

Provides the manufacturer identification number, which is 0x05. This method can be used to check if the sensor is up and running.

Returns

the manufacturer identification number 0x05.

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

- `BB_LTR303ALS01.h`
- `BB_LTR303ALS01.cpp`

2.2 `BB_LTR303ALS01_SETTINGS` Struct Reference

```
#include <BB_LTR303ALS01.h>
```

Public Attributes

- `uint8_t gain`
- `uint8_t mode`
- `uint8_t integrationTime`
- `uint8_t measurementRate`
- `uint8_t interruptPolarity`
- `uint8_t interruptMode`
- `uint8_t thresholdUp0`
- `uint8_t thresholdUp1`
- `uint8_t thresholdLow0`
- `uint8_t thresholdLow1`
- `uint8_t interruptPersist`

2.2.1 Detailed Description

Contains the settings for the LTR303ALS01

The documentation for this struct was generated from the following file:

- `BB_LTR303ALS01.h`

Index

BB_LTR303ALS01, [3](#)
 BB_LTR303ALS01, [3](#)
 BB_LTR303ALS01, [3](#)
 readChannel0, [3](#)
 readChannel1, [3](#)
 readManufacturerId, [4](#)
BB_LTR303ALS01_SETTINGS, [4](#)

readChannel0
 BB_LTR303ALS01, [3](#)
readChannel1
 BB_LTR303ALS01, [3](#)
readManufacturerId
 BB_LTR303ALS01, [4](#)