Software Requirements of PIR Sensor Driver

Team X

Contents

Scope of Document

This document specifies the software requirements of PIR Sensor Driver.

Functional Overview

PIR Sensor Driver provides details about the configured port and pin which it's connected to, also it provides over view about the functions used to get info. About the sensor.

Requirement Specifications

Functional Requirements

Configuration and initialization

1- [SRS_PIR_4600] The PIR Driver shall support symbolic names for PORT&PIN

Type:	Valid
Description:	The PIR driver shall allow the static configuration of the following symbolic names: • PIR_port_num • PIR_pin_num • Direction
Rationale:	Provide human readable symbolic names for PIR channels
Use cases	Get access to PIR sensor
Dependencies	--
Supporting material	--

2- The PIR Driver shall provide a service to initialize the sensor

Type:	Valid
Description:	The PIR driver shall provide a service to the sensor pin
Rationale:	Basic Function
Use cases	Initialize the PIR sensor

Dependencies	[SRS_PIR_4600]
Supporting material	--

3-[SRS_PIR_4603] The PIR Driver provide a service to read the status of the sensor

Type:	Valid
Description:	The PIR driver shall provide a service to read status of the sensor pin
Rationale:	Basic Function
Use cases	Read Sensor Status
Dependencies	[SRS_DIO_508]
Supporting material	--