

# **Software Requirements of PIR Sensor Driver**

**Team X**

## Contents

Scope of Document.....	3
Functional Overview.....	3
Requirement Specifications .....	3
Functional Requirements .....	3
Configuration and initialization .....	3

## Scope of Document

This document specifies the software requirements of LD Sensor Driver.

## Functional Overview

LDR 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\_LDR\_4700] The PIR Driver shall support symbolic names for PORT&PIN

Type:	Valid
Description:	The LDR driver shall allow the static configuration of the following symbolic names: <ul style="list-style-type: none"><li>• LDR_port_num</li><li>• PIR_pin_num</li></ul>
Rationale:	Provide human readable symbolic names for LDR channels
Use cases	Get access to LDR sensor
Dependencies	--
Supporting material	--

2- [SRS\_LDR\_4701] The LDR Driver shall provide a service to initialize the sensor

<b>Type:</b>	<b>Valid</b>
<b>Description:</b>	The LDR driver shall provide a service initializes to the sensor pin
<b>Rationale:</b>	Basic Function
<b>Use cases</b>	Initialize the LDR sensor
<b>Dependencies</b>	[SRS_LDR_4700]
<b>Supporting material</b>	--

3-[SRS\_LDR\_4702] The PIR Driver provide a service to read the status of the sensor

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