

# **Requirements on IR Driver**

**Team X**

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## Scope of document:

This document specifies requirements on the module IR Driver. The IR driver is targeting IR (Infra-Red) sensor Hardware.

## Functional overview:

The IR driver detects if there is an object in front of the sensor.

## Requirement specifications:

### Functional Requirements:

#### Configuration and initialization:

- 1- [SRS\_IR\_6101] The IR Driver shall support symbolic names for IR channels.

Type:	Valid
Description:	The IR driver shall allow the static configuration of the following symbolic names: <ul style="list-style-type: none"><li>• IR channel</li><li>• Detected and not detected value</li></ul>
Rationale:	Provide human readable symbolic names for IR channels
Use cases	--
Dependencies	--
Supporting material	--

- 2- [SRS\_IR\_6102] The IR driver shall provide a service that initializes the IR.

Type:	Valid
Description:	The IR driver shall initialize the IR pin
Rationale:	Basic functionality
Use cases	Initialize the IR
Dependencies	[SRS_IR_6101]
Supporting material	--

**Normal operation:****1- [SRS\_IR\_6103] The IR driver shall provide a service that reads the IR signal.**

<b>Type:</b>	<b>Valid</b>
<b>Description:</b>	The IR driver shall provide a service that reads the IR signal to see if there is an object detected or not
<b>Rationale:</b>	Basic functionality
<b>Use cases</b>	Read IR signal
<b>Dependencies</b>	[SRS_IR_6101]
<b>Supporting material</b>	--