

Team X

Requirements on Solenoid Driver

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Scope of document:

This document specifies requirements on the module Solenoid Driver.

Functional overview:

The Solenoid driver initializes the Solenoid, Opens the solenoids and closes the solenoids.

Requirement specifications:

Functional Requirements:

Configuration and initialization:

1- [SRS_Solenoid_4301] The Solenoid Driver shall support symbolic names for Solenoid pin.

Type:	Valid
Description:	The Solenoid driver shall allow the static configuration of the following symbolic names: • Solenoid port • Solenoid pin
Rationale:	Provide human readable symbolic names for Solenoid channels
Use cases	
Dependencies	
Supporting material	

2- [SRS_Solenoid4302] The Solenoid driver shall provide a service that initializes the solenoid.

Type:	Valid
Description:	The Solenoid driver shall provide a service that initializes solenoid pin.
Rationale:	Basic functionality
Use cases	Initialize the solenoid
Dependencies	[SRS_Solenoid_4301], [SRS_Solenoid_4302]
Supporting material	

Normal operation:

1- [SRS_Solenoid_4303] The Solenoid driver shall provide a service that opens the solenoid.

Type:	Valid
Description:	The solenoid driver shall provide a service that opens the solenoid.
Rationale:	Basic functionality
Use cases	Write high on the solenoid pin.
Dependencies	[SRS_Solenoid_4301], [SRS_Solenoid_4302]
Supporting material	

2- [SRS_Solenoid_4304] The Solenoid driver shall provide a service that closes the solenoid.

Type:	Valid
Description:	The Solenoid driver shall provide a service that closes the solenoid
Rationale:	Basic functionality
Use cases	Write Low on the solenoid pin
Dependencies	[SRS_Solenoid_4301], [SRS_Solenoid_4302]
Supporting material	