

Alarms

This section allows you to specify the alarm inputs and the response to these sensors.

The screenshot shows the Siemens STEP 7 HW Config software interface. The left sidebar contains a tree view of configuration options, with 'Inputs/Outputs/Sensors' expanded and 'Alarms' selected. The main workspace displays a table of sensor configurations. Four yellow callout boxes with arrows provide instructions: 'Specifying the desired port number' points to the 'Input Number' column; 'Saving changes' points to the floppy disk icon in the top right; 'Select the functionality of the specified port.' points to the 'Sensor type' column; and 'Activation field of the selected sensor.' points to the 'Sensor name' column.

Sensor name	Input Number	Sensor type
Emergency Button	15	Normally closed
Shock Sensor	3	Normally opened
X: Servo driver ready	11	Normally closed
X2: Servo driver ready	12	Normally closed
Y: Servo driver ready	13	Normally closed
Z: Servo driver ready	0	Normally opened
A: Servo driver ready	0	Normally opened
B: Servo driver ready	0	Normally opened
C: Servo driver ready	0	Normally opened
Air Pressure	0	Normally opened
Gas Pressure	0	Normally opened
Oxygen Pressure	0	Normally opened
Coolant	0	Normally opened
Safety Switch	0	Normally closed
Motor Short Circuit	0	Normally opened
Spindle Driver Ready	0	Normally opened
Servo driver(s) Alarm	0	Normally opened

The selected sensor is activated by setting the “V” symbol in the corresponding field.

Sensors

Sensor name	Input Number	Sensor type
Emergency Button <input checked="" type="checkbox"/>	15	Normally closed
Shock Sensor <input type="checkbox"/>	3	Normally opened Normally closed
X:Servo driver ready <input type="checkbox"/>	11	Normally closed
X2:Servo driver ready <input type="checkbox"/>	12	Normally closed
Y:Servo driver ready <input type="checkbox"/>	13	Normally closed
Z:Servo driver ready <input type="checkbox"/>	0	Normally opened
A:Servo driver ready <input type="checkbox"/>	0	Normally opened

Saving changes

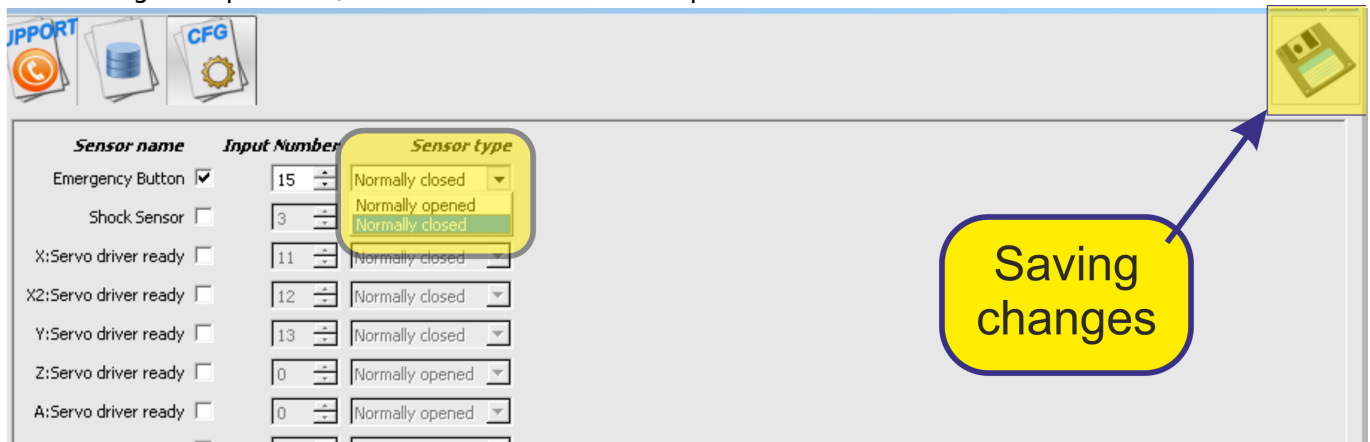
The input number on the controller board is set in the corresponding field “Inputs Number”
Numbering of inputs can be found in the documentation for the selected window controller.

The screenshot shows the 'Sensor configuration' window with a table of sensors. A yellow callout box with the text 'Saving changes' and a blue arrow points to the floppy disk icon in the top right corner of the window.

Sensor name	Input Number	Sensor type
Emergency Button <input checked="" type="checkbox"/>	15	Normally closed
Shock Sensor <input type="checkbox"/>	3	Normally opened
		Normally closed
X:Servo driver ready <input type="checkbox"/>	11	Normally closed
X2:Servo driver ready <input type="checkbox"/>	12	Normally closed
Y:Servo driver ready <input type="checkbox"/>	13	Normally closed
Z:Servo driver ready <input type="checkbox"/>	0	Normally opened
A:Servo driver ready <input type="checkbox"/>	0	Normally opened

The type of the sensor is specified in the corresponding field `""`. There are two types of input sensors.

Normally open - the sensor in the rest position has not closed contacts and in the course of operation the sensor contacts are closed. Normally closed - the sensor in the rest position has closed contacts and during the operation, the sensor contacts are opened.



Sensor name	Input Number	Sensor type
Emergency Button <input checked="" type="checkbox"/>	15	Normally closed
Shock Sensor <input type="checkbox"/>	3	Normally open
X:Servo driver ready <input type="checkbox"/>	11	Normally closed
X2:Servo driver ready <input type="checkbox"/>	12	Normally closed
Y:Servo driver ready <input type="checkbox"/>	13	Normally closed
Z:Servo driver ready <input type="checkbox"/>	0	Normally open
A:Servo driver ready <input type="checkbox"/>	0	Normally open

Table of alarm sensors

Name of alarm sensor	Functional of sensor
Emergency Button	Emergency shutdown button. When the button is pressed, all machine actions will be stopped.
Shock sensor	
X:Servo drive ready	
X2:Servo drive ready	
Y:Servo drive ready	
Z:Servo drive ready	
A:Servo drive ready	
B:Servo drive ready	
C:Servo drive ready	
Air Pressure	
Gas Pressure	
Oxygen Pressure	
Coolant	
Safety switch	
Motor Short Circuit	
Spindle Driver Ready	
Servo Driver(s) Alarm	

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