

## Alarms

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

The screenshot shows the 'CNC Settings' application window. The left sidebar contains a tree view of settings categories. The main area displays a table for configuring sensors. Annotations with arrows point to specific parts of the interface:





- Specifying the desired port number:** Points to the 'Input Number' column in the sensor configuration table.
- Saving changes:** Points to the 'Save' button (floppy disk icon) in the top right corner.
- Select the functionality of the specified port:** Points to the 'Sensor type' column in the sensor configuration table.
- Activation field of the selected sensor:** Points to the 'Sensor name' column in the sensor configuration table.

**CNC Settings**

- Axes/Motors
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- Hardware PLC
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- Macro List
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  - Connections
- Technology
  - Camera
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- Panel/Pendant
- Hardware
- Advanced

| 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.

| Sensor name  | Input Number | Sensor type     |
|--|--------------|-----------------|
| Emergency Button <input checked="" type="checkbox"/> | 15           | Normally closed |
| Shock Sensor <input type="checkbox"/>                | 3            | Normally open   |
|  |              | 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 open   |
| A:Servo driver ready <input type="checkbox"/>        | 0            | Normally open   |

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.

The screenshot shows the 'Sensor type' configuration window. The 'Emergency Button' is checked and assigned to input number 15. The 'Sensor type' dropdown is open, showing 'Normally closed' as the selected option. Other sensors listed include Shock Sensor, X:Servo driver ready, X2:Servo driver ready, Y:Servo driver ready, Z:Servo driver ready, and A:Servo driver ready, all with their respective input numbers and sensor types.

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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