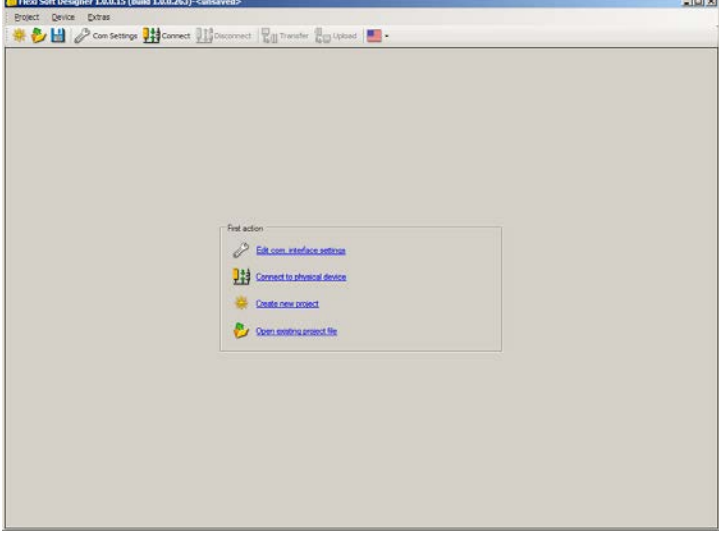
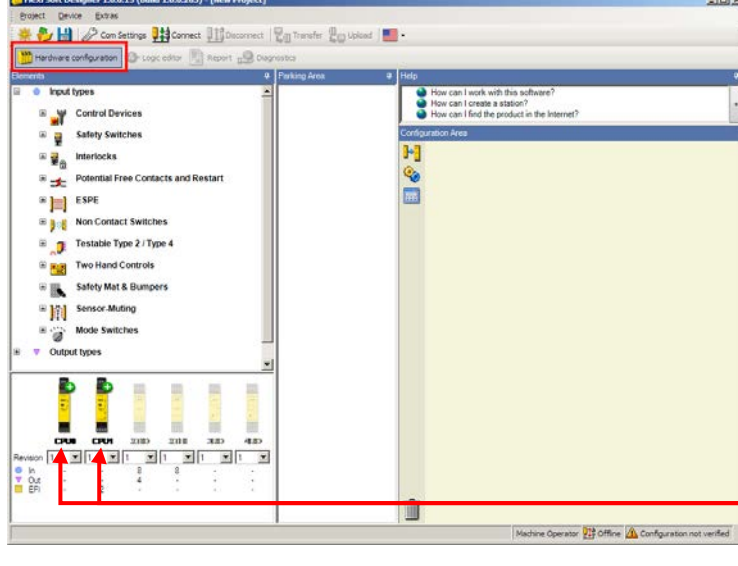
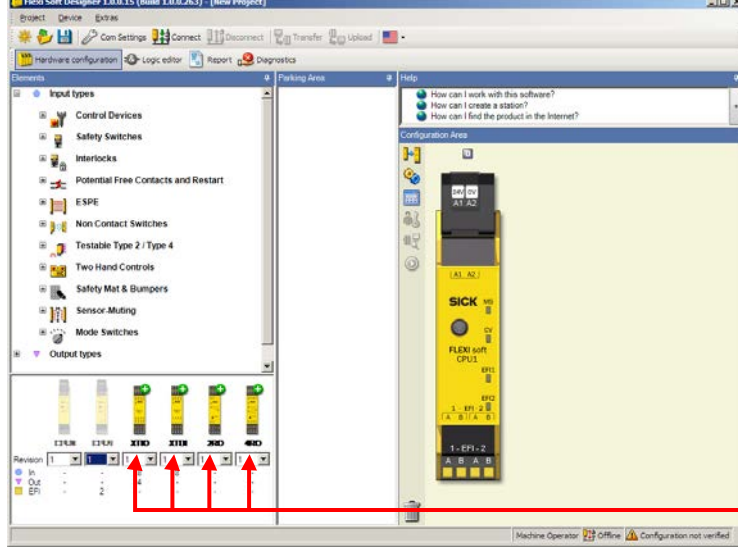


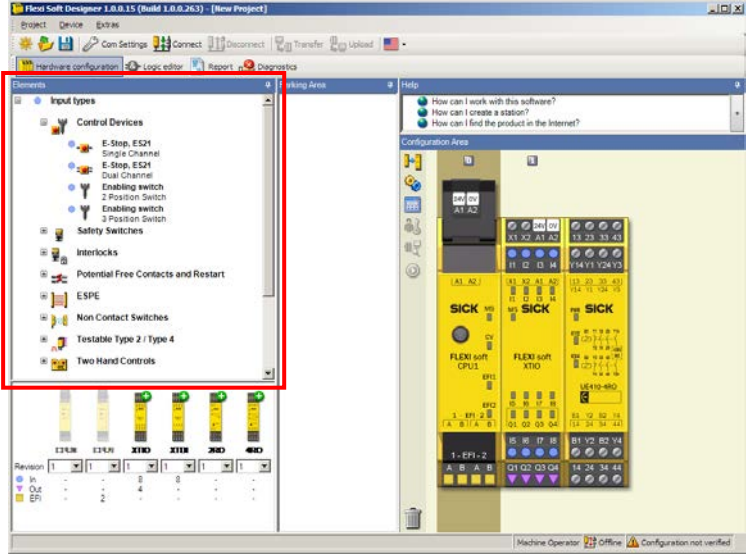
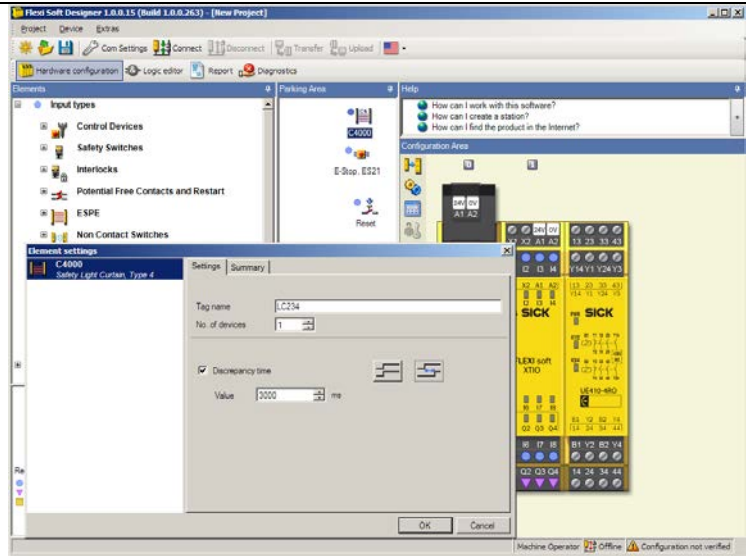


# Flexi Soft Designer

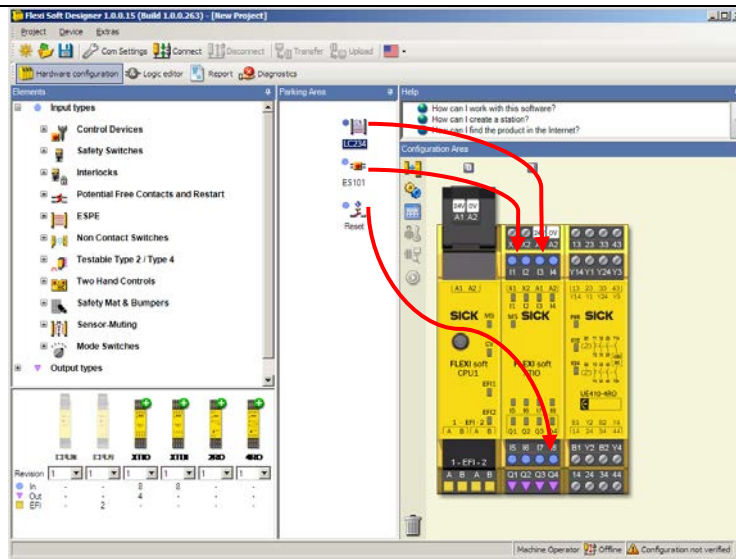
## Offline

## Quick Start

1		<p>In the First Action window, select <b><u>Create new project</u></b></p>
2		<p>This is the main Flexi Soft Designer window. Select the <b>Hardware Configuration</b> tab.</p> <p>Every Flexi Soft system has one CPU module.</p> <p><b>CPU0</b> supports 256 function blocks.</p> <p><b>CPU1</b> supports 256 function blocks plus 2 Enhanced Function Interface connections.</p> <p>For this quick start, click on CPU1</p>
3		<p>CPU1 appears in the Configuration Area.</p> <p>Four I/O module types are available:</p> <ul style="list-style-type: none"> <li><b>XTIO</b> – adds 8 inputs plus 4 outputs</li> <li><b>XTDI</b> – adds 8 inputs</li> <li><b>2RO</b> – adds 1 pair of contact outputs</li> <li><b>4RO</b> – adds 2 pairs of contact outputs</li> </ul> <p>The essential Flexi Soft system requires at least one XTIO module. Add one by clicking on the XTIO icon. Add a 4RO relay</p>

		as well.
4		<p>All I/O terminals you want to use must be configured. Select icons from the <b>Elements</b> pane that represent the devices you will attach to the Flexi Soft modules.</p> <p>Drag the following elements to the Parking Area:</p> <ul style="list-style-type: none"> <li>- E-Stop(Dual Channel) from <b>Control Devices</b></li> <li>- C4000 from the <b>ESPE</b> group</li> <li>- Reset from Potential Free Contacts and Restart</li> </ul>
5		<p>The element tags of your devices are customizable. Double-click on an icon in the Parking Area to display the Element Settings window.</p> <p>Add the Tag Name LC234 to the C4000 device and click OK. The icon's label changes to match your tag name.</p> <p>Add the Tag Name ES101 to the E-Stop device icon.</p>

6



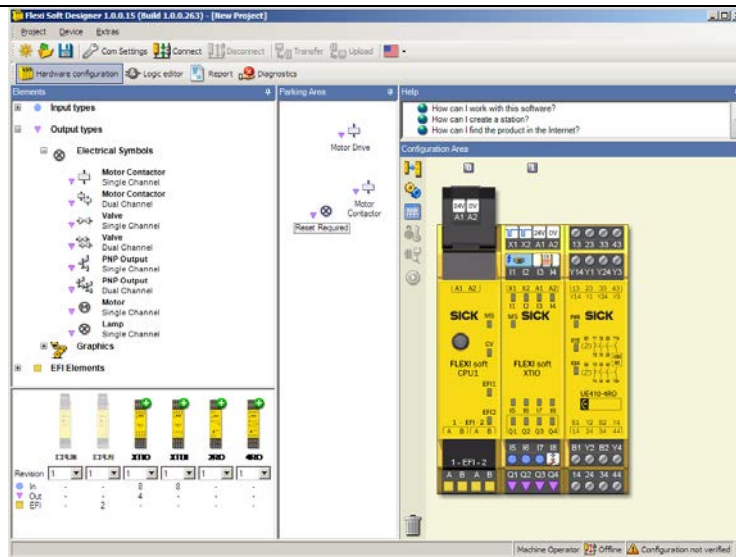
Next, attach the input device icons to the XTIO module. Click and drag the LC234 icon over terminals I3 and I4. The round blue input terminals change to green when the element can be placed.

Drop the LC2344 icon on I3 and I4.

Drag and drop the ES101 icon on I1 and I2.

Drag and drop the Reset icon on I8.

7



Now, let's configure the outputs. In the Elements pane, open the **Output types** group.

Move two *Motor Contactor* (Single channel) device icons and one *Lamp* icon to the Parking Area.

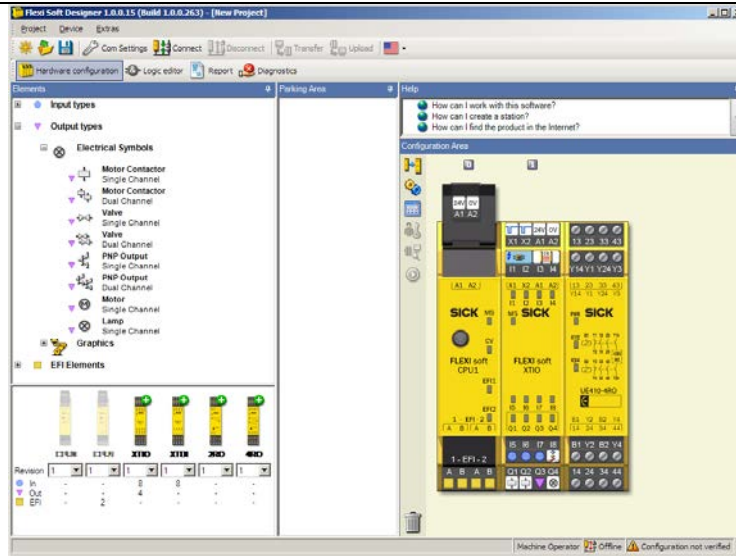
Change the tag name of one Motor Contactor device to "Motor Drive" and the tag name of the Lamp device to "Reset Required".

Drag the Motor Contactor icon to Q1.

Drag the Motor Drive icon to Q2.

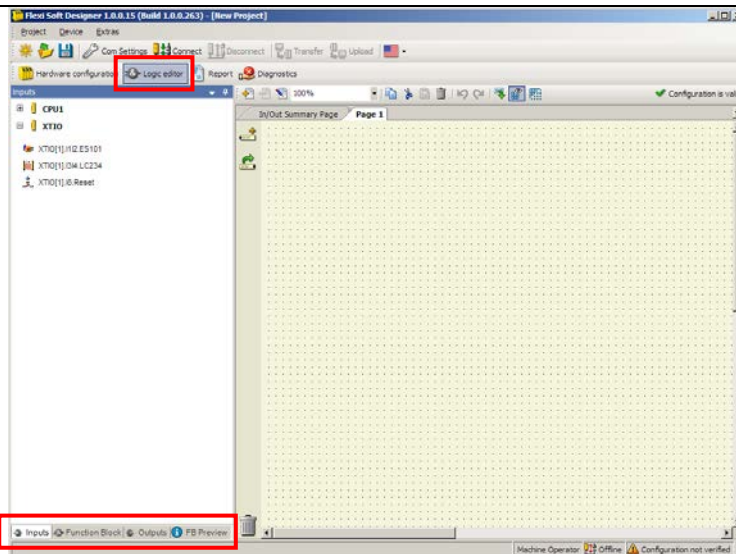
Drag the Reset Required icon to Q4.

8



The completed Hardware Configuration page should look like this.

9

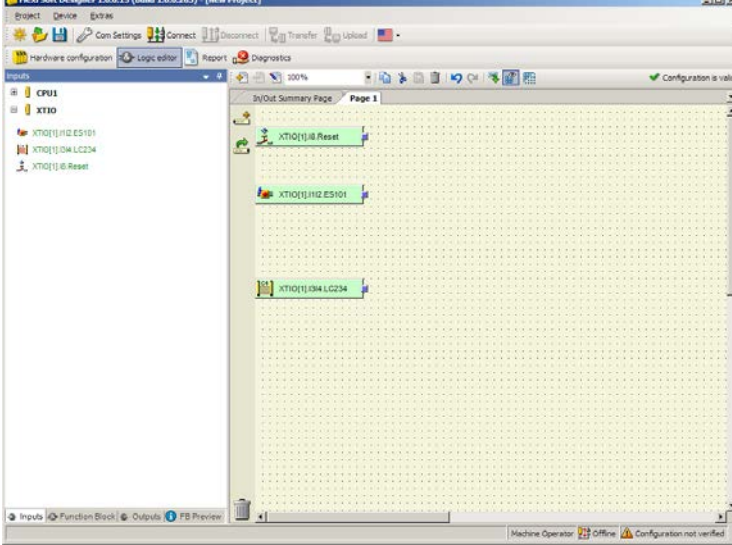
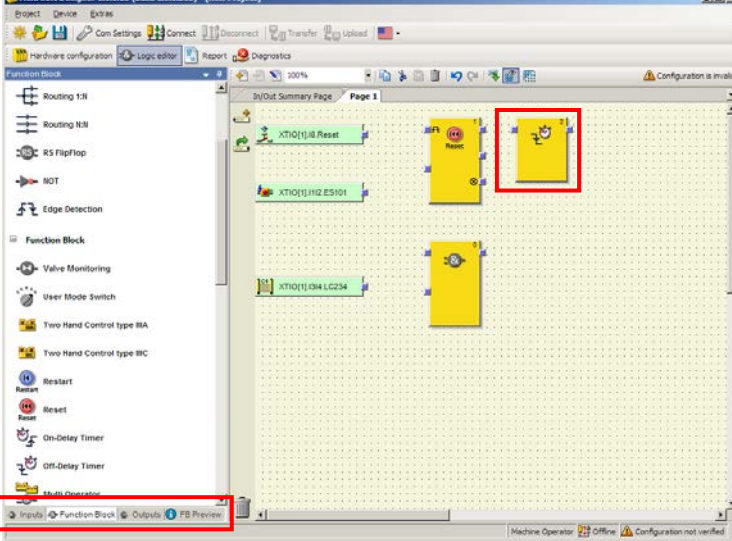


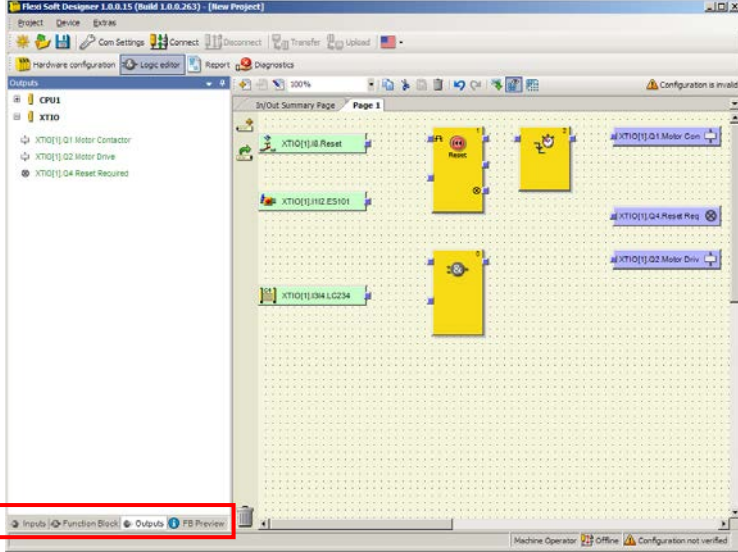
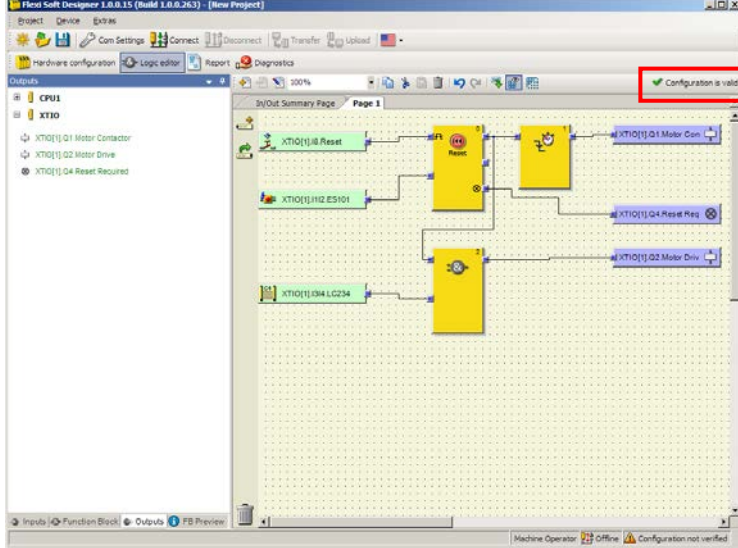
Next, we configure the safety program logic. Click the Logic editor tab.

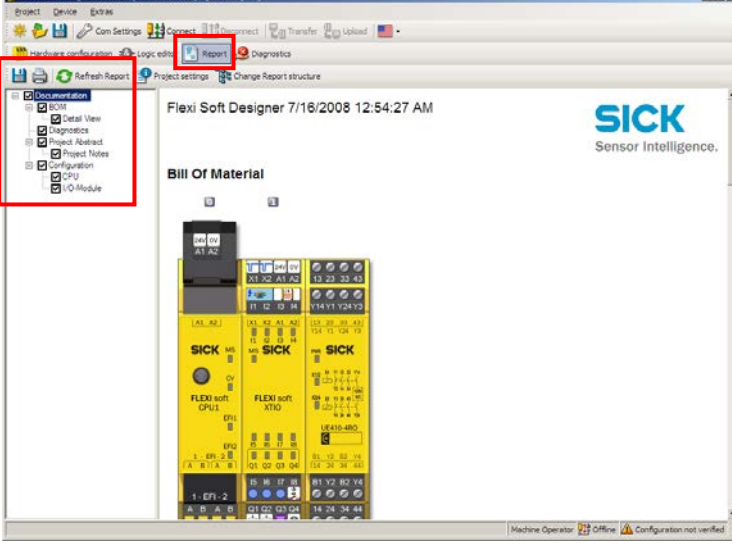
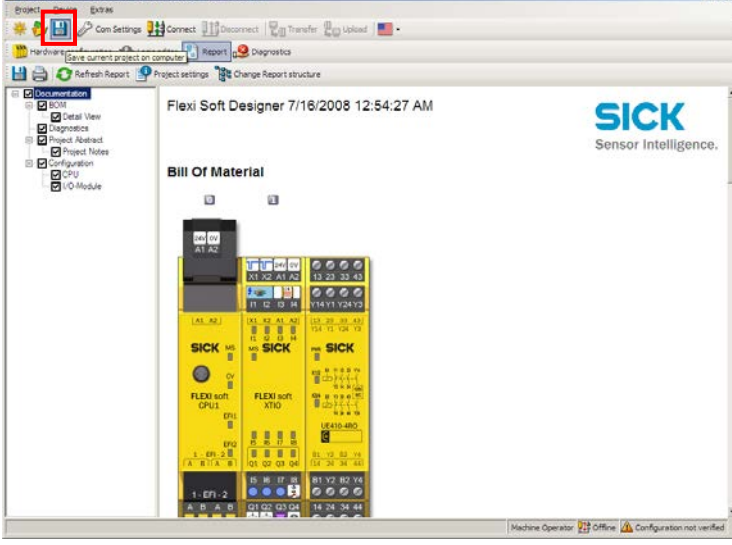
Notice the tabs labeled *Inputs*, *Function Block*, *Outputs*, and *FB Preview*. Click the **Inputs** tab.

The tags we created in the Hardware Configuration appear under the XTIO icon.



10		<p>Drag the three input device icons onto logic Page 1 and drop them about like they are shown here.</p> <p>Input tags have the green background.</p>
11		<p>Select the <b>Function Block</b> tab.</p> <p>Drag and drop the following functions block s on Page 1:</p> <ul style="list-style-type: none"> <li>AND</li> <li>Reset</li> <li>Off-Delay Timer</li> </ul> <p>The Off-Delay Timer default setting is 0 seconds. Double-click on the Timer you placed on Page 1 and set the Delay Time value to 300. This gives a time delay of 3 seconds.</p>

12		<p>Select the <b>Outputs</b> tab.</p> <p>Drag the three output device icons onto logic Page 1 and drop them about like they are shown here.</p> <p>Output tags have the blue background.</p>
13		<p>Finally, create the safety logic. Click on a function block or I/O handle and hold the mouse button while dragging the connector line over the endpoint handle. Release the mouse button to make the connection.</p> <p>Complete the safety logic by making the connections between the inputs, function blocks and outputs as shown.</p> <p>Congratulations! The Configuration is Valid indication lets you know the configuration can be transferred to the Flexi Soft hardware.</p>

14		<p>Document your work using the Report tab.</p> <p>Check the <b>Documentation</b> box, then click the <b>Refresh Report</b> button.</p> <p>The report can be printed or saved as a PDF document.</p>
15		<p>Remember to save your Flexi Soft project!</p> <p>Use the Save Current Project button.</p>