

# RASWIN Module SRS Input + Output

# Safety Matrix?

## SRS Module

SRS Module is the relationship between inputs ( Safety devices) and outputs ( Hazard Movements Devices).

Advantage:

People with basic knowledge about automation could build a relationship between inputs and outputs.

Managers are able to understand this machine safety approach.

Health and safety people are comfortable at this level, without engineering details.

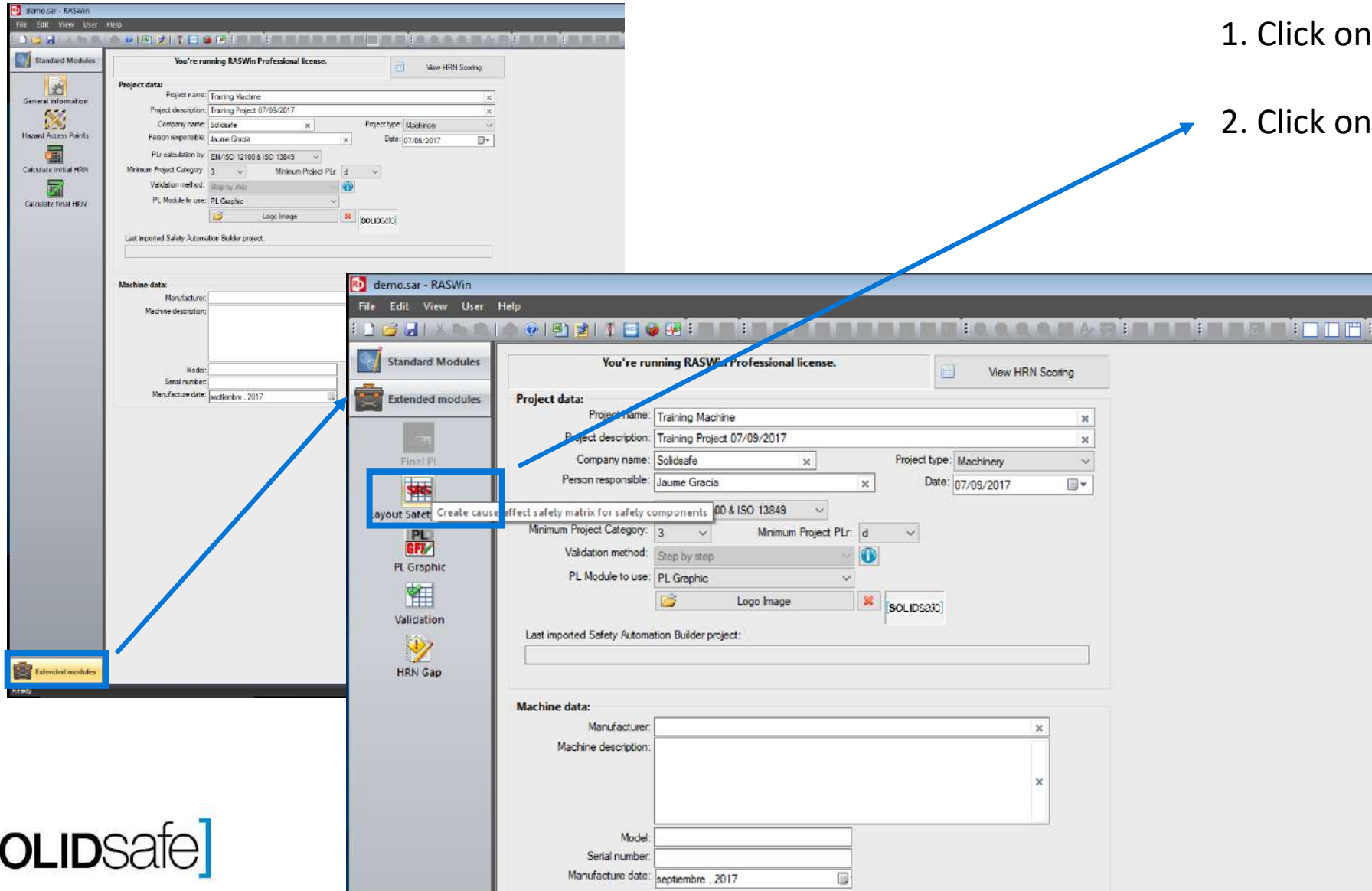
SAFETY MATRIX				
CODE	INPUT ELEMENT DESCRIPTION	USER CODE	OUTPUT ELEMENTS DESCRIPTION	RESET
			Acces Point 1	
			Translation	
			2000	
			KA1	
1100	Central Estop	PBE-1	OFF	R3000

# How to create a Safety Matrix in RASWin?

## SRS Module

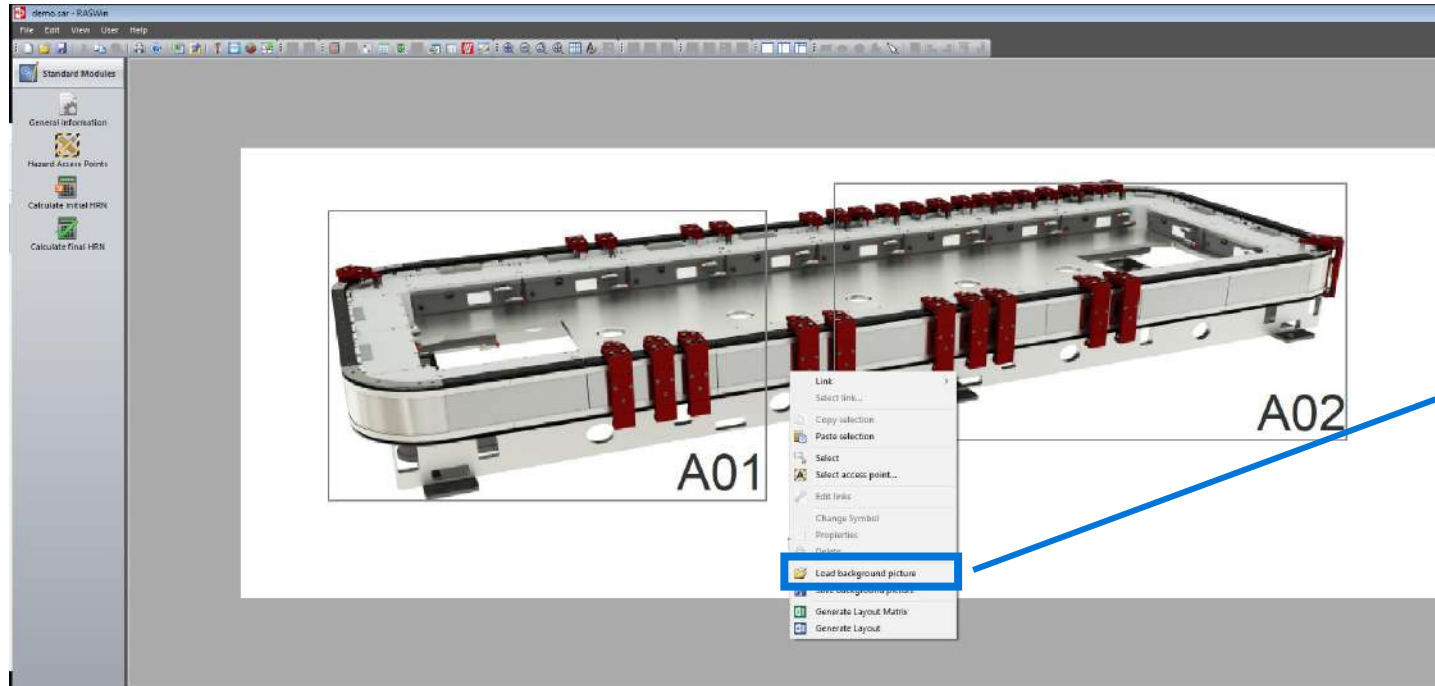
1. Click on "Extended modules".

2. Click on SRS Module icon.



# How to create a Safety Matrix in RASWin?

## SRS Module

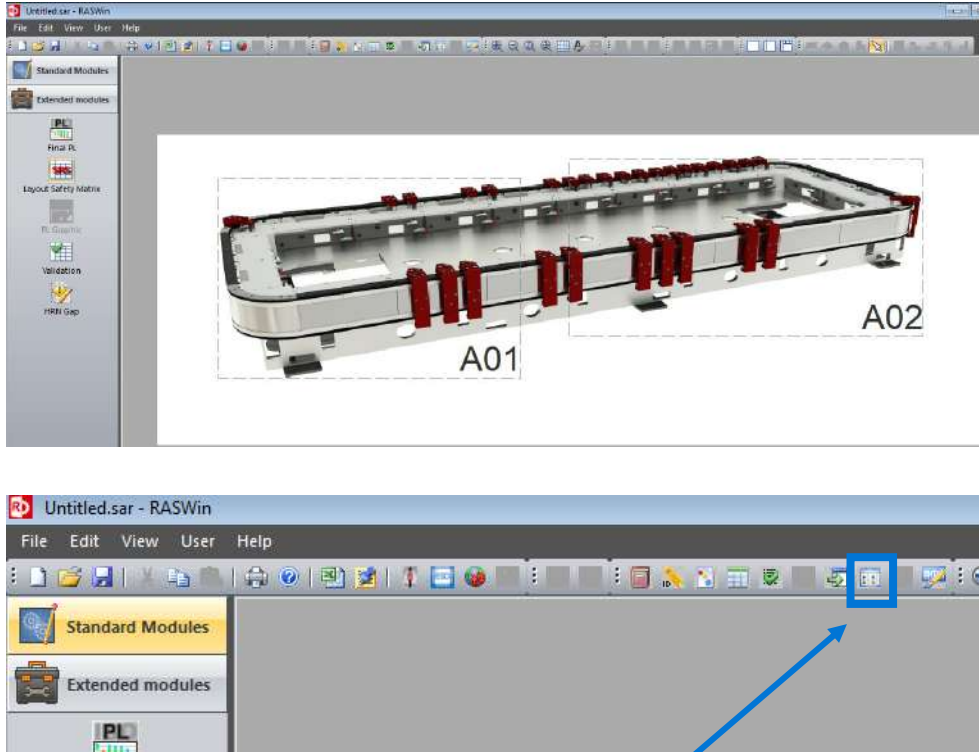


Once in the SRS Module, the same background image used on “*hazard access points*” Module, will appear by default.

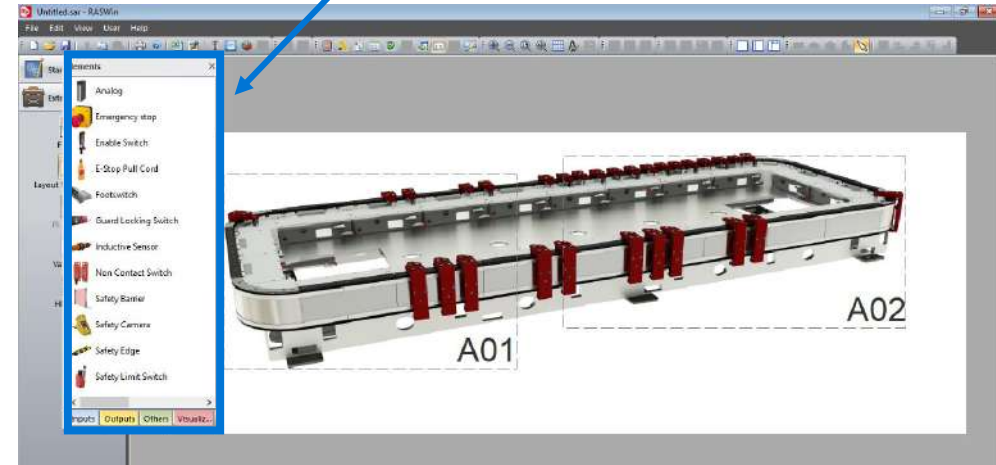
You can also change the background image by right click on the layout and selecting “*Load Background picture*”.

# How to create a Safety Matrix in RASWin?

## Elements pane

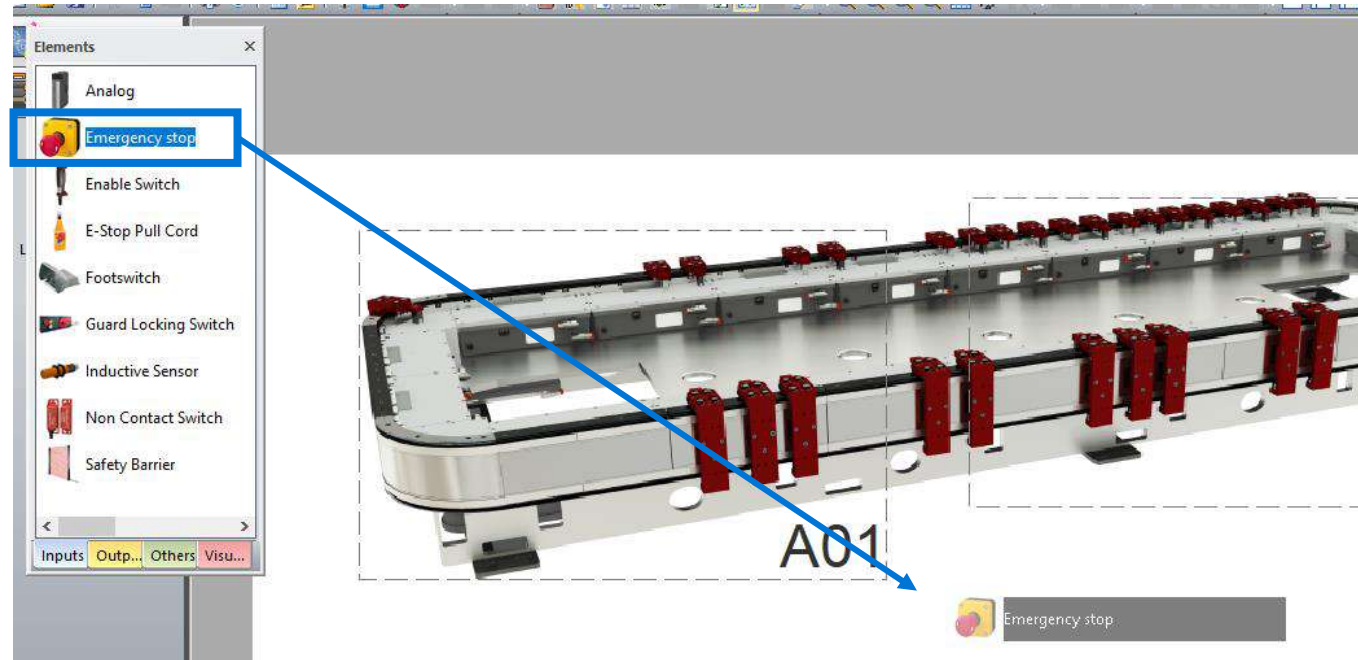


The element pane will appear



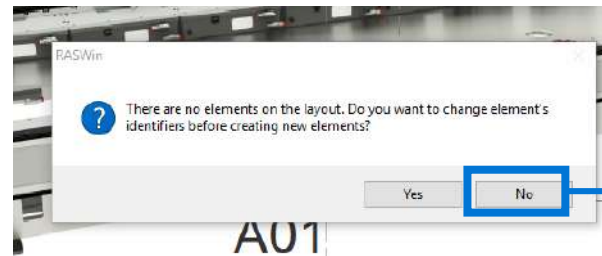
# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output Architecture



1. Select an input element and drag it on the layout.

Note: If it is the first time that a element is created, the following window will appear.



Select no

Step 1: Add input element

# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output Architecture

Element information: X

Matrix Code: 1100 1100 - 1199

User Code: PBE-1

Description: Central EStop

Manufacturer: Rockwell

Reference: XXX-XXXX Accessories

Location: Operator Station 2

Access Point: 02 - Access Point 2

Label color: [Red] Exclude from Matrix  PLC

Auto reset

Validations and configuration:

PLC Configuration Validation configuration

Additional Information

Edit links Cancel Ok

1. Complete the following information:

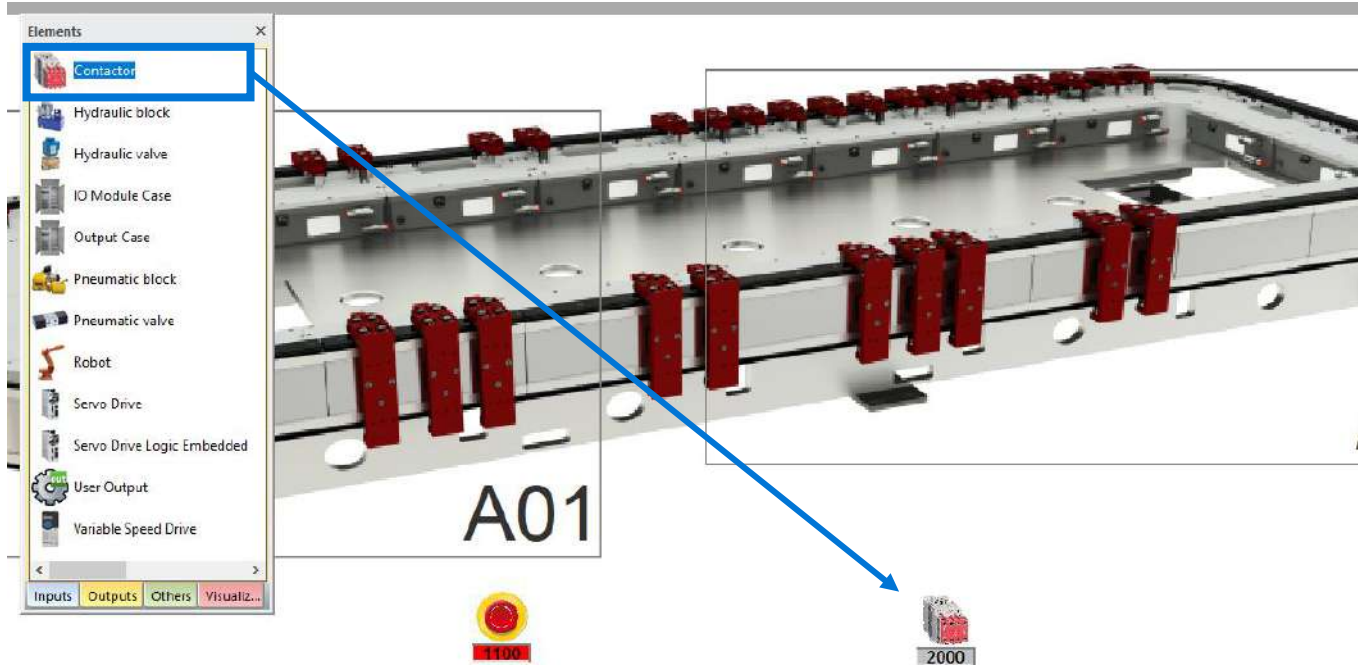
Description  
Manufacturer  
Reference  
Location

2. Click Ok



# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output Architecture



1. Select an output element and drag it on the layout.

Step 3: Add a Output element



# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output Architecture

Element information:

Matrix Code: 2000 2000 - 2049

User Code: KA1

Description: Auxiliar Contactor 1

Manufacturer: Rockwell

Reference: XXX-XXXX Accessories

Location: Electric Case

Access Point: <Not assigned>

Label color:  Exclude from Matrix  PLC

Validations and configuration:

PLC Configuration Validation configuration

Additional Information Additional Feedback Information

Edit links Cancel Ok

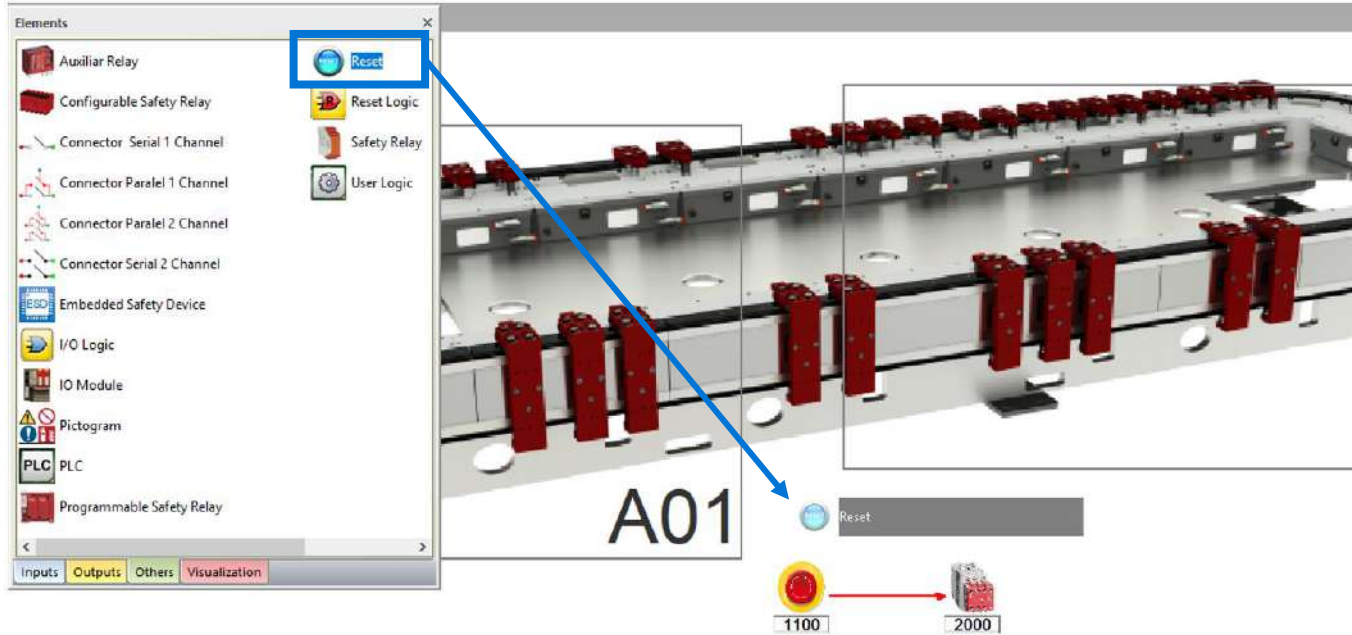
1. Complete the following information:

Description  
Manufacturer  
Reference  
Location

2. Click Ok

# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output Architecture



1. Select “Others” on the Element Pane.
2. Select a reset element and drag it on the layout.

Step 5: Add a Reset

# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output (with reset) Architecture

Element information: X

Matrix Code: 3000 3000 - 3099

User Code: R120

Description: Estop Reset button

Manufacturer: Rockwell Automation

Reference: XXX-XXXX

Location: Operator Station 2

Access Point: 02 - Access Point 2

Label color: [Color]  Exclude from Matrix  PLC

Validations and configuration:

PLC Configuration Validation configuration

Additional Information

Edit links Cancel Ok

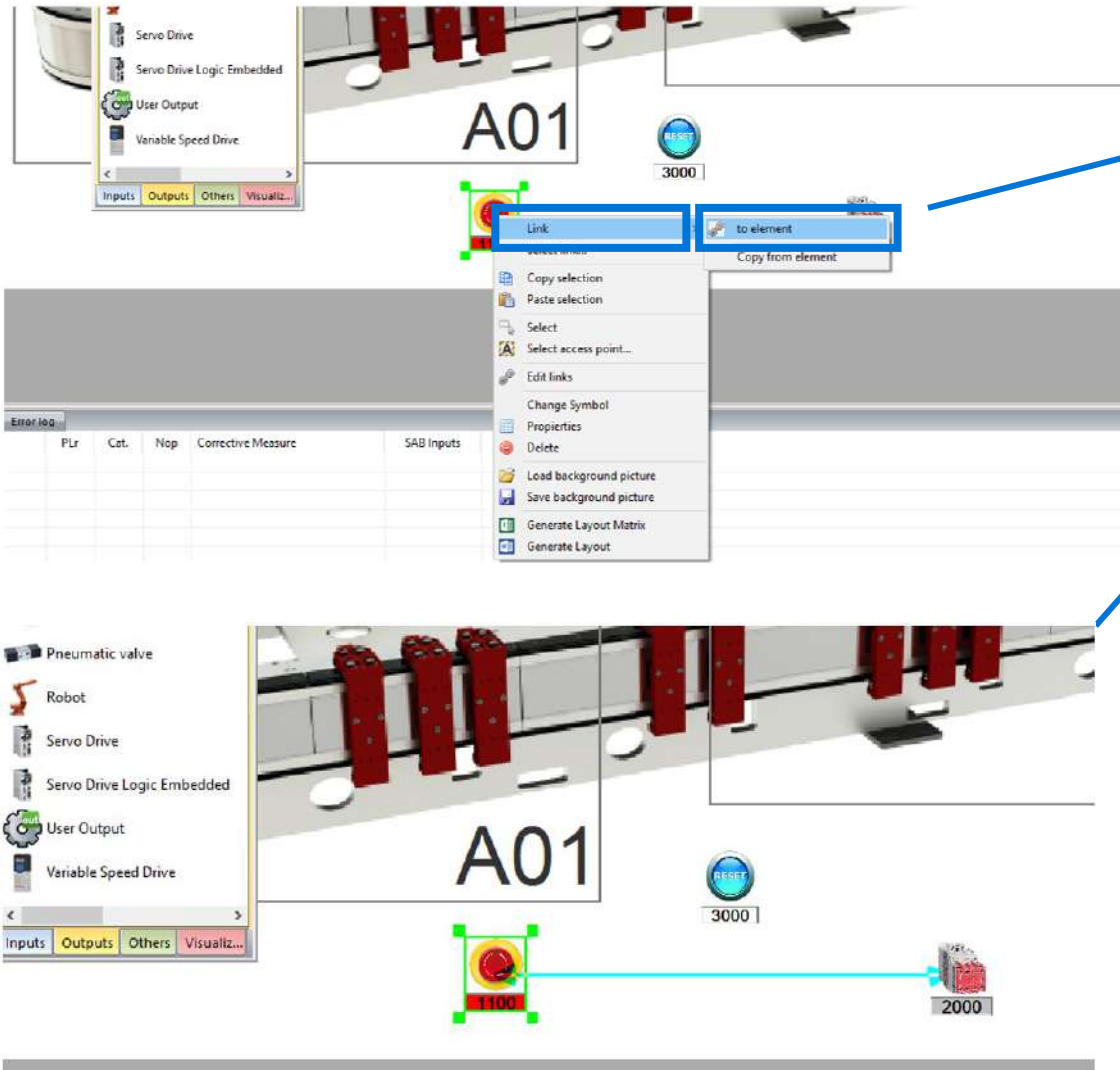
1. Complete the following information:

Description  
Manufacturer  
Reference  
Location

2. Click Ok

# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output Architecture

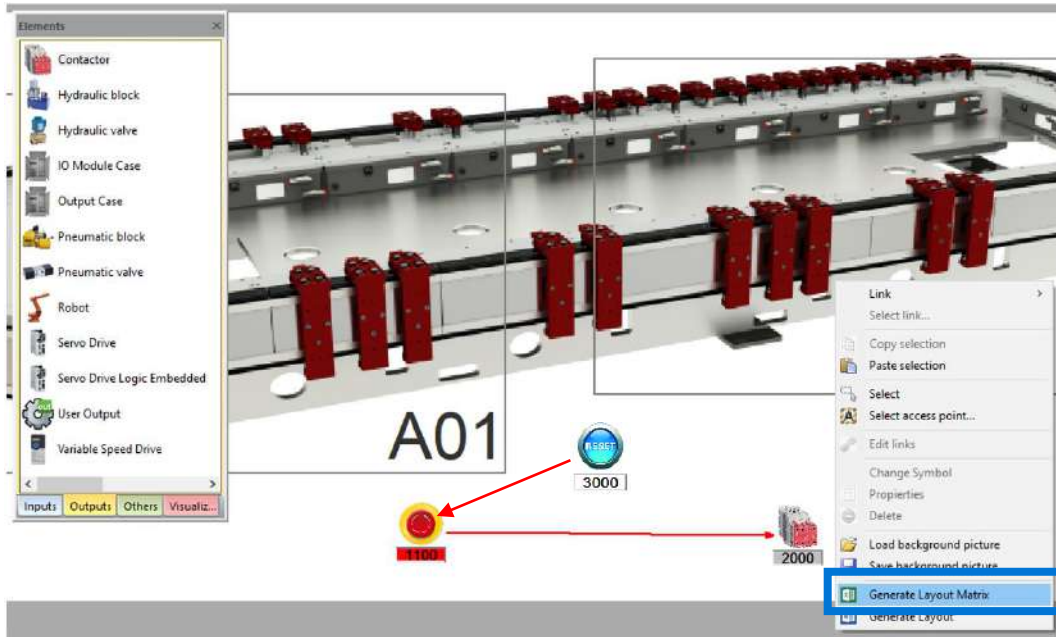


1. Select the element to link.
2. Click "link".
3. Click "to element" (the mouse cursor will change to a cross).
4. Click on the output element.
5. The link will be displayed in red color.
6. Click on the reset to link the Input with the reset.
7. To stop linking press Esc button or right mouse button.

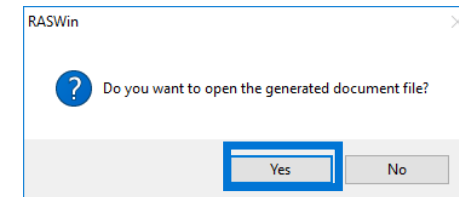
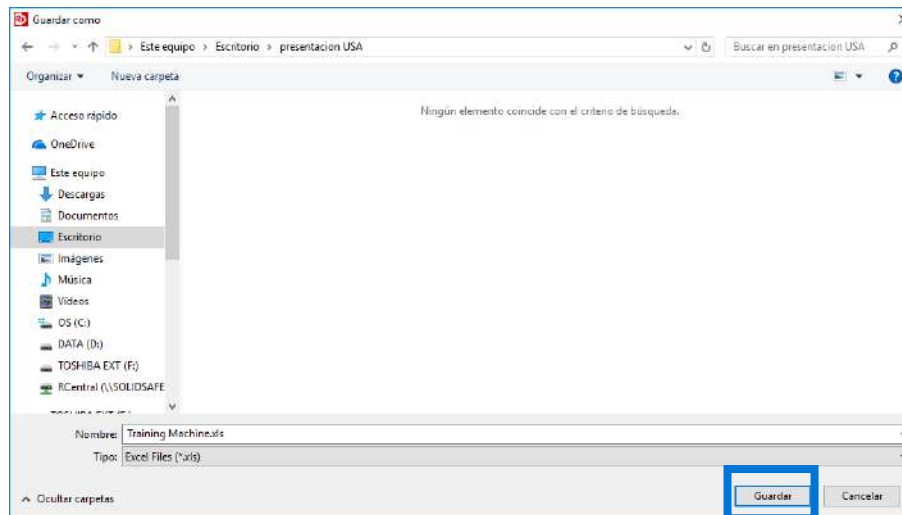
Step 7: Link the elements

# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output Architecture



1. Right click anywhere on the layout.
2. Select *“Generate Layout Matrix”*.
3. Save the Matrix.
4. And click *“Yes”*, to open the Safety Matrix.



# How to create a Safety Matrix in RASWin?

## Case 1: Input + Output Architecture

Once the file is opened, the following safety matrix will appear .

	B	C	D	E	F	G
<b>SAFETY MATRIX</b>						
CODE	INPUT ELEMENT DESCRIPTION	USER CODE	OUTPUT ACCESS POINT	RESET		
			Auxiliar Contactor 1			
			2000			
			KA1			
1100	Central EStop	PBE-1	OFF		R3000	

# Next Presentation

RASWIN Module SRS  
Input + Safety Relay + Output

[SOLIDSsafe]

