

Alarm Annunciator

1) The Lamp (output) of the alarm annunciator flashes at 1 Hz and the audio output is activated (to draw the attention of the plant operator) when input changes to a logic high, state, signifying an abnormal operating state.

2) When the operator presses the Ack_Reset button (to acknowledge the occurrence of the alarm) the audio alarm is turned off and the output Lamp is now continuously lit instead of flashing. This indicates that the alarm has been acknowledged but the alarm condition persists (that is input is still 1).

3) When the alarm condition returns to normal (input changes to 0), the Lamp turns off.

4) If an alarm condition returns to normal before it is acknowledged by pressing the Ack_Reset push button, then the Lamp continues to flash and audio output remains activated (even though the alarm condition has returned to normal) until the Ack_Reset push button is pressed by the operator, after which the Lamp and the audio alarm both go to the off state.

A one-channel alarm annunciator is implemented using a Function Block and then multiple instances of this FB is used to implement multiple channels.

POU_clock x

Task

POU

PLC_PRG

Visualization

PROGRAM POU_clock

	Scope	Name	Address	Data type	Initialization	Comment	Attributes
1	VAR	thisVar		BOOL			

1

thisVar

/

thisVar

(

)

POU_dock

Task x

POU

PLC_PRG

Visualization

Configuration

Priority (0..31):

1

Task group

IEC-Tasks

Type

Cyclic

Interval (e.g. t#200ms)

500

ms

Watchdog

Enable

Time (e.g. t#200ms)

ms

Sensitivity

1

+ Add Call

✕ Remove Call

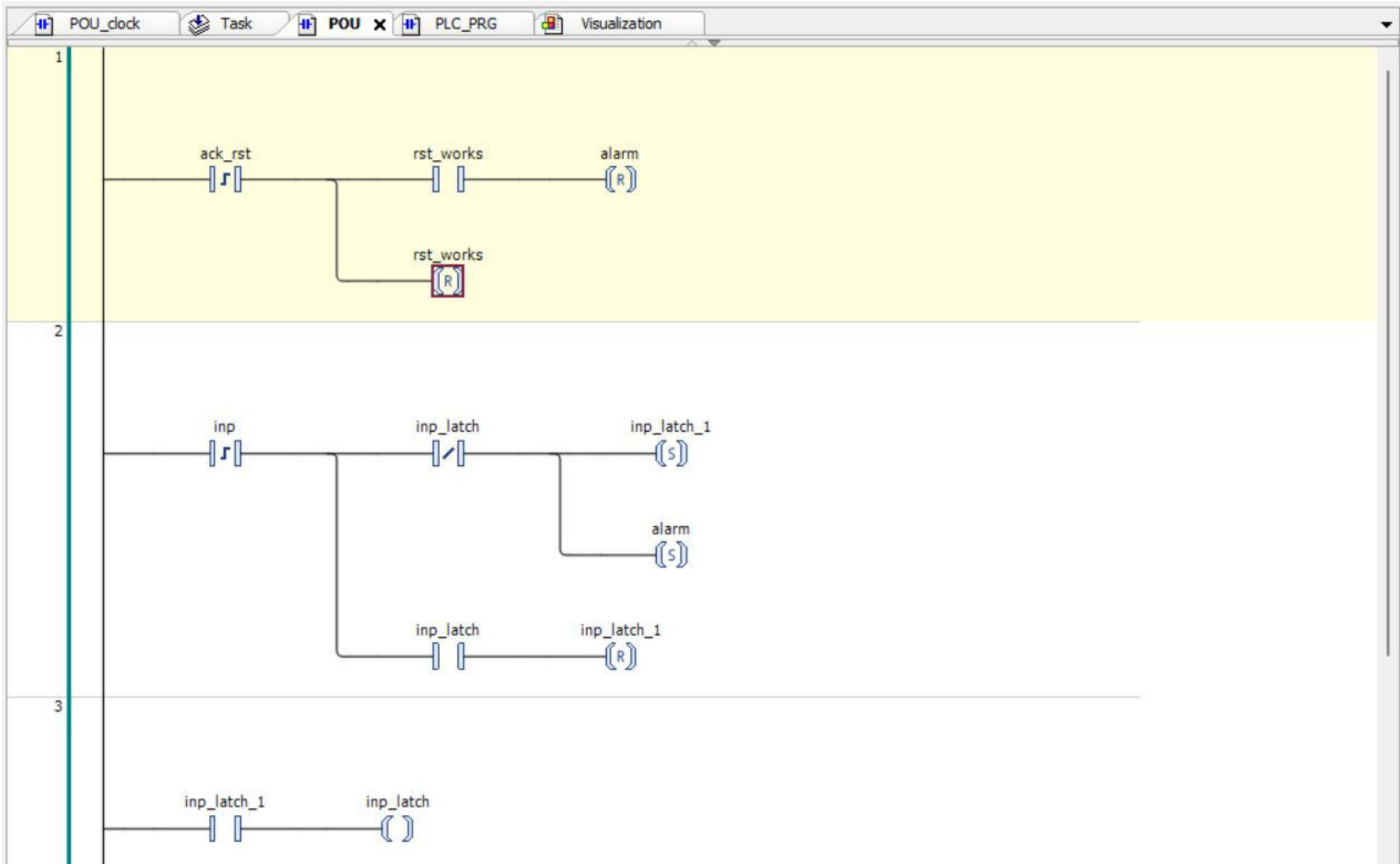
✎ Change Call

⬆ Move Up

⬇ Move Down

➡ Open POU

POU	Comment
POU_dock	



4

inp_latch_1



rst_works



5

inp_latch



alarm



POU_clock.thisVar



lamp

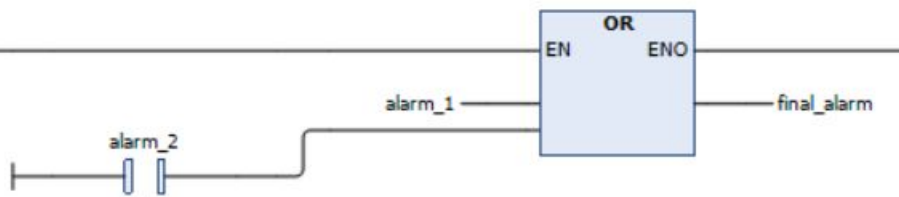
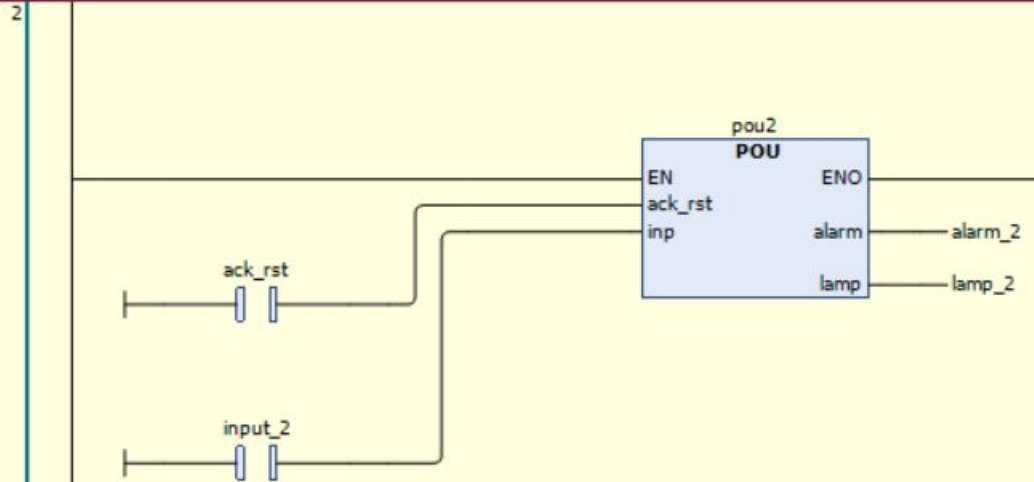
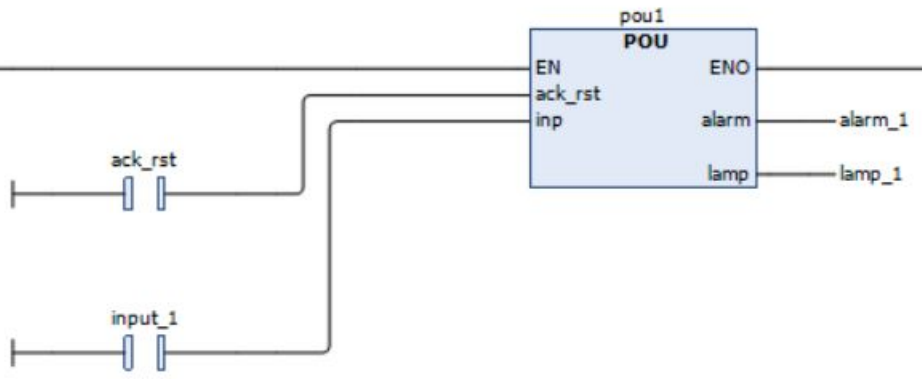


rst_works



alarm







A



B



Alarm



Acknowledgement Reset