

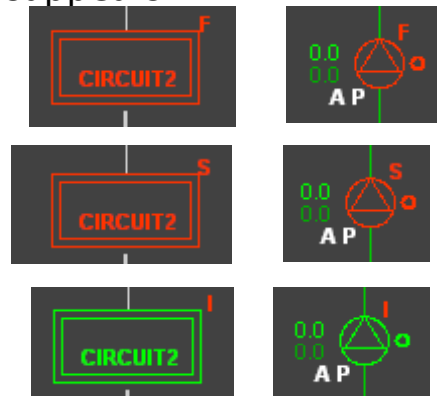
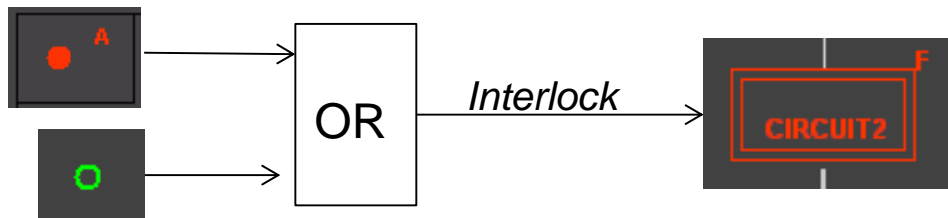
- **Alarm:** PLC object signaling a problem (**A**)

- ✓ Represented by a round in synoptic



- **Interlock:** Signal allowing a *unit* or an *actuator* to go in its fail-safe position

- ✓ Interlocks are triggered by alarm objects
- ✓ **Full Stop Interlock (F):** Stopping and restart after explicit order from operators
- ✓ **Stop Interlock (S):** Stopping and restart automatically when interlock disappears
- ✓ **Start Interlock (I):** Impossibility to start, stay in fail-safe position











- **Alert:** Message in WinCC-OA indicating a problem (alarm or interlock)

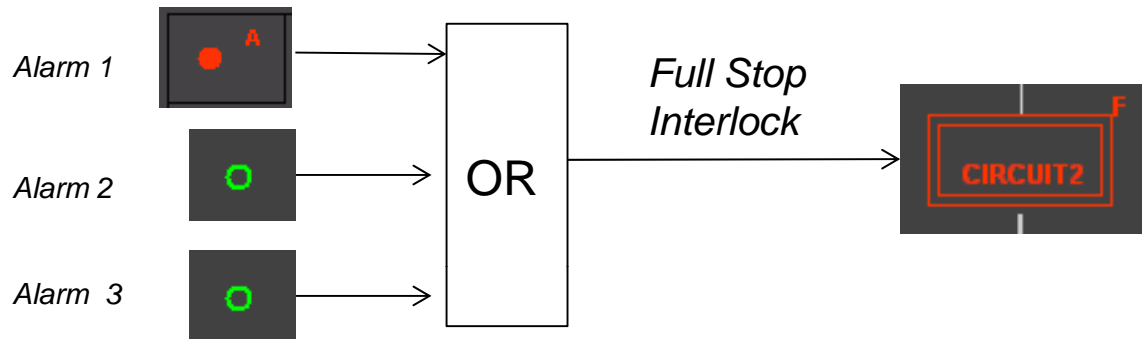
Sh...	Local Time	Alias	Description	Domain	Nature	Name	Value	Ack.	S
Bad	2006.08.09 13:00:48.130	QURCA_2_CC1MBESD	CC1 AMB Emergency S	QURCA	DI	Position Status	FALSE	■	S
Bad	2006.08.09 13:00:48.130	QURCA_2_CC3MBWdg	CC3 AMB Watchdog - D	QURCA	DI	Position Status	FALSE	■	S
Bad	2006.08.09 13:00:48.130	QURCA_2_CC2MBLey	CC2 AMB levitate On - C	QURCA	DI	Position Status	FALSE	■	S



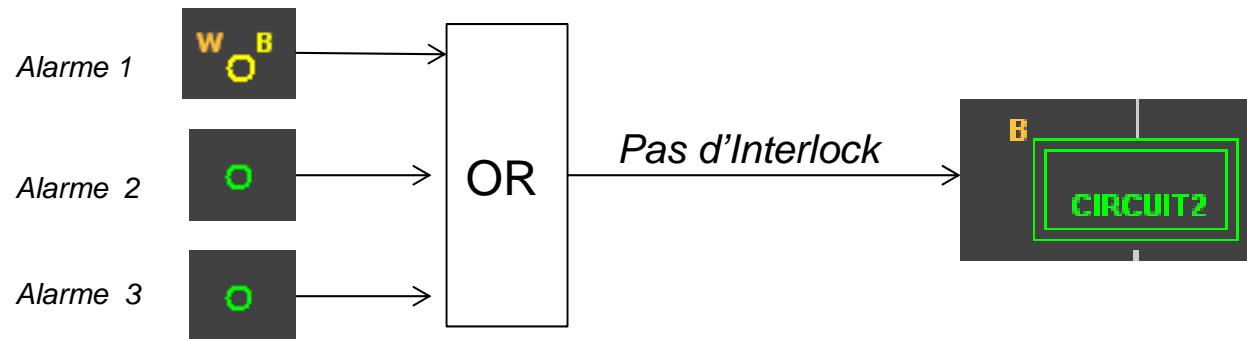
Alarm widget

	Alarm condition not full-filed	Alarm condition full-filed
Acknowledged		
Not Acknowledged	 BLINK !!	 BLINK !!
Blocked PLC alarm		
Masked PVSS Alarm <i>(rarely Used)</i>		

- Interlocks are triggered by alarm objects:



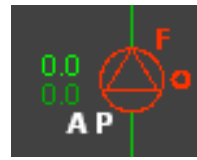
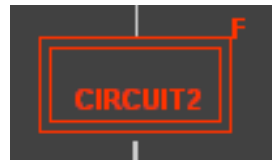
- Alarm object can be blocked (*Block PLC Alarm*):



- All Interlocks can be directly blocked in units or actuators



- From a panel with a unit or an actuator in interlock
 - ✓ Double click on unit/actuator having an interlock (**F,S,I**)



- Click on button « *Alarms* » to have all the alarm objects linked to this unit/actuator and identify the source of the problem

The screenshot shows two windows from the UNICOS Alarm Management system. The left window, titled '1 - RFQ_L4_CIRCUIT2 RFQ circuit2', displays various control parameters for the unit, including Status, Operation Modes, Orders, Requests, and Warnings. The 'Alarms' button is highlighted with a red box. An arrow points from this button to the right window, titled '1 - RFQ_L4_CIRCUIT2 RFQ circuit2 Configured alarms'. This window shows a list of alarm objects with their status indicators (red for active, green for inactive). The active alarms are:

- RFQ_L4_PT0025_FS: Bad filling pressure circuit2 (Active)
- RFQ_L4_PT0024_FS: Bad pressure input circuit circuit2 (Active)
- RFQ_L4_CIRCUIT2_FS1: DISTRIB Full Stop Circuit2 (Active)

The other alarms are inactive (green):

- RFQ_L4_RFQCOOL_FS1: Emergency stop UIA0xxx
- RFQ_L4_CIRCUIT2_FS2: Default temperature Circuit2
- RFQ_L4_FILLING2_AL2: Large Leak Circuit 2