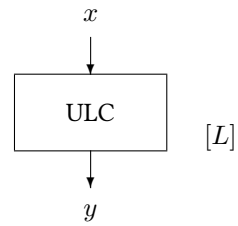


Block ULC

The ULC block tests whether the input signal is upward crossing a threshold level.



Name	ULC
Function	fb0039
Inputs	1
Outputs	1
Parameters	0 ... [1]
Strings	0
Group	S

Inputs

- | | |
|---|------------------------|
| 1 | Any input signal x . |
|---|------------------------|

Outputs

- | | |
|---|--|
| 1 | Indicator y for upward level crossing, y is set to one if x has crossed L from $x < L$, else y is set to zero |
|---|--|

Parameters

- | | |
|---|--|
| 1 | Threshold level L (default $L = 0$) |
|---|--|

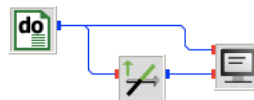
Strings

None

Description The output of this block is defined as

$$y = \begin{cases} 1 & \text{if } x \text{ has crossed } L \text{ from } x \leq L \text{ to } x > L \\ 0 & \text{else} \end{cases}$$

ulc.vseit



A **DO** block counts from one to five. The output is used by an **ULC** block with threshold 2.5. Both the counter and the output of the **ULC** block are displayed using the **SCREEN** block.

1. 0.
2. 0.
3. 1.
4. 0.
5. 0.

See also Block **DLC**.