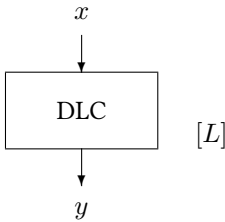


Block DLC

The DLC block tests whether the input signal is downward crossing a threshold level.



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

Inputs

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

Outputs

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

Parameters

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

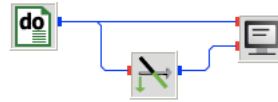
Strings

None

Description The output of this block is defined as

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

dlc.vseit



A **DO** block decreases numbers from 5 to 1 in steps of -1 . The **DLC** block checks for downward level crossing at threshold 2.5. Both the counter and the output of the **DLC** block are then displayed using the **SCREEN** block.

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

See also Block **ULC**.