Simplest Example

A Much Better Idea : Logical : Unique

AmbiLogique

Electronic Controllers

The Simplest example shows the most elementary diagrams which can be constructed and which carry out any kind of real function.

The first circuit simply connects one switch input to a transistor output.

The second circuit is similar, but adds an inversion so that the output is FALSE when the input is TRUE and vice versa.

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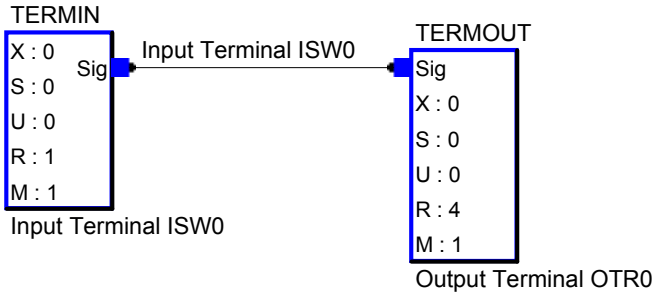
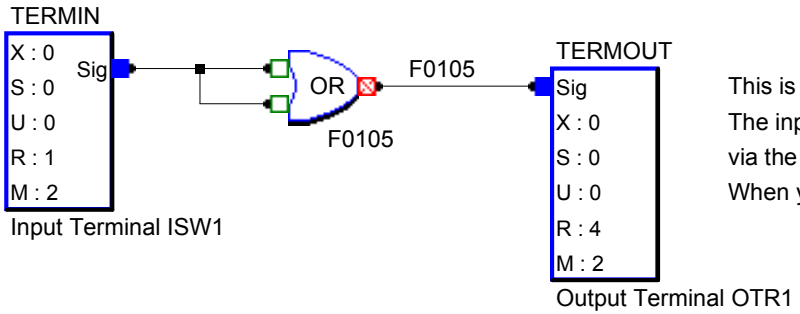


This is the simplest diagram you can construct.
The input terminal ISW0 is connected directly to the output terminal OTR0.
When you switch on the input, the output goes on; and vice versa.

This diagram has the 3 basic elements of any diagram:

- Input
- Output
- and the function in between



This is the second simplest diagram you can construct.
The input terminal ISW1 is connected to the output terminal OTR1
via the OR gate whose output is inverted.
When you switch on the input, the output goes off; and vice versa.

AmbiLogique does not have a digital inverter: generally it is not needed because digital pins can be inverted on the diagram.
However we have a special case with this diagram: although the signal is digital (FALSE/TRUE) it is generated by a function block with an analogue output pin and sensed by a function block with an analogue input pin.
There are a dozen ways of implementing an inverter: this is the one we at AmbiLogique use.