

SelChgB

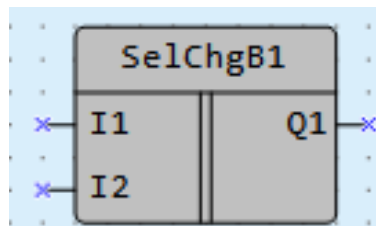


Figure 1 – Symbol

Inputs	Data type	Description	Range
I1	Bool	Input	0/1
I2	Bool	Input	0/1
Outputs	Data type	Description	Range
Q1	Bool	Multiplexer output	0/1

Description of how the macro works

The macro is designed to change a variable of type bool using two variables. The output of the macro records the last change of one of the two variables

Structure of the macro

The structural diagram of the macro is shown in Fig.2.

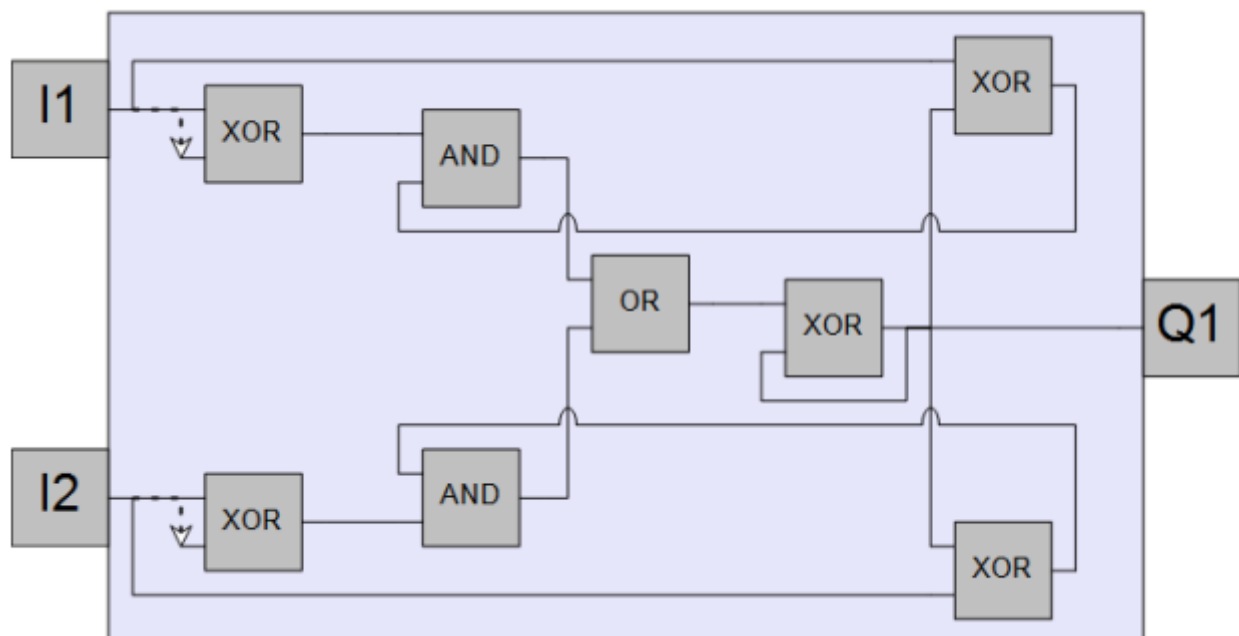


Fig.2.

Example of work

Figure 3 shows an example of a macro with a sequential change of a variable, in the first step first input changes, in the second second input and in the third first input, in this case, it is clear that the output is the value that changed last. If the input variables have the same values, the output does not change.

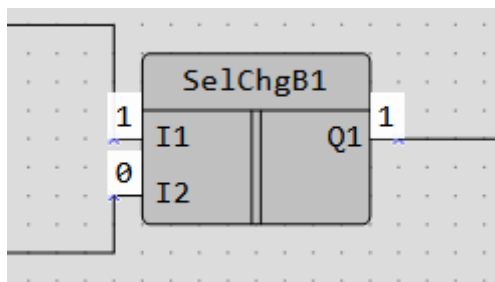


Figure 3 – Example of macro operation

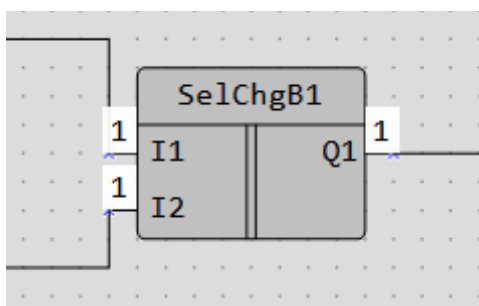


Figure 4 – Example of macro operation

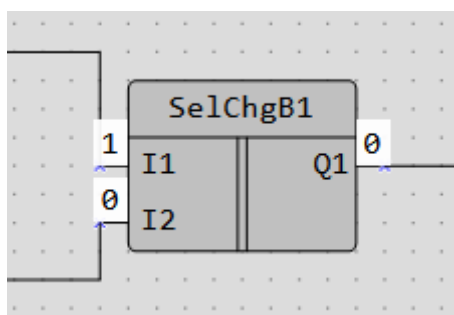


Figure 5 – Example of macro operation

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