

Detection of a Leap Year

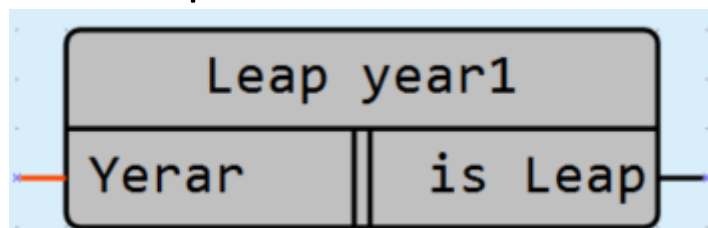


Figure 1 – Symbol

Inputs	Data type	Description	Range
Year	Int	Input year	00-99*
Outputs	Data type	Description	Range
Is Leap	Bool	Result	0/1

*- since in programmable relays the year value can take a value from 00 to 99, then the value with the addition of the constant 2000 must be supplied to the input of the "Year" macro in order to have the full year format 20XX at the input.

If you use software version below 1.8.92, you do not need to add the constant during simulation, since in them the "Year" variable is output in the format YYYY

Explanation of how macro works

The macro is an algorithm for calculating a leap year. The isLEAP output is set to "1" if the year value in full format (2000, 2016, etc.) supplied to the "Year" input is a leap year. If the year is not a leap year, the output value is "0".

Version	1.0
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