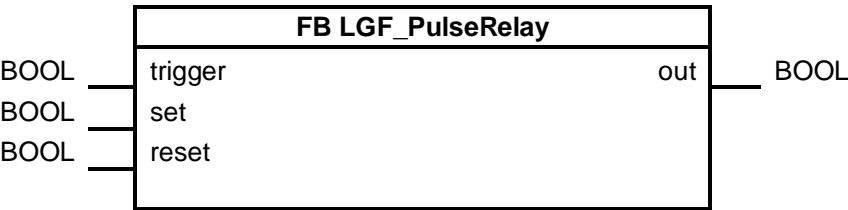


LGF_PulseRelay

Short description

This block corresponds to an impulse relay or a toggle flip-flop including set and reset input.

Block



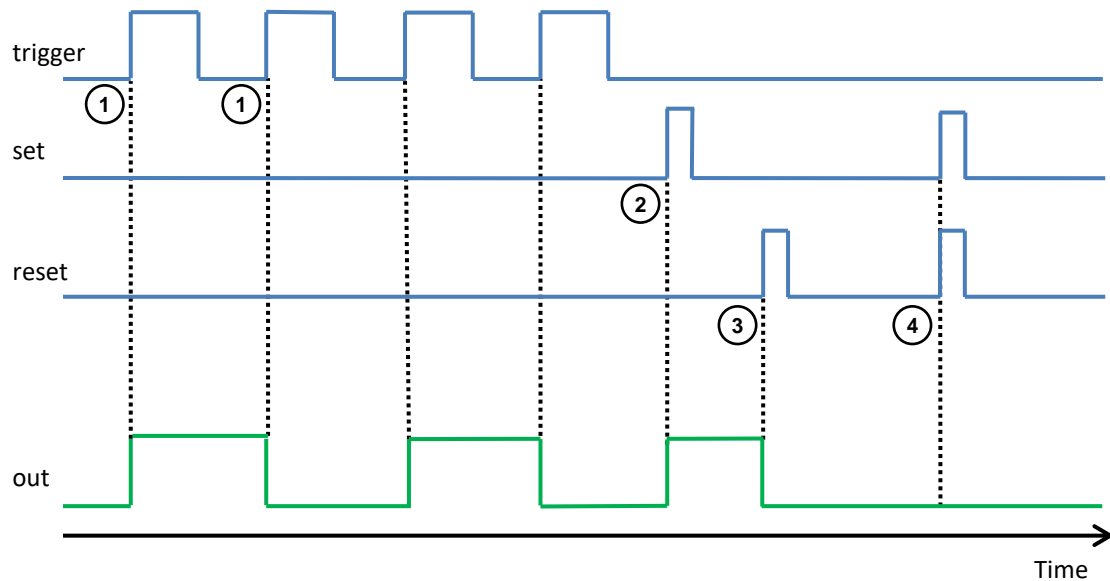
Input parameters

Parameters	Data type	Description
trigger	BOOL	Each rising edge changes the boolean value of the output “out”.
set	BOOL	Each rising edge sets the boolean value of the output “out” to “TRUE”.
reset	BOOL	Each rising edge sets the boolean value of the output “out” to “FALSE”.

Output parameters

Parameters	Data type	Description
out	BOOL	Signal output

Principle of operation



1. Each rising edge of the input “trigger” changes the boolean value of the output “out”.
2. Each rising edge of the input “set” sets the boolean value of the output “out” to “TRUE”.
3. Each rising edge of the input “reset” sets the boolean value of the output “out” to “FALSE”.
4. If the inputs “set” and “reset” are set in the same cycle, the “reset” input has priority.

The block can also be used as a frequency divider. If the input “trigger” is supplied with a fixed frequency, the output “out” delivers half the frequency.

Further information on libraries in TIA Portal:

- Topic page libraries
<https://support.industry.siemens.com/cs/ww/en/view/109738702>
- Guideline on Library Handling
<https://support.industry.siemens.com/cs/ww/en/view/109747503>
- Programming Guideline for S7-1200/1500 in chapter “Libraries”
<https://support.industry.siemens.com/cs/ww/en/view/81318674>
- Programming Styleguide
<https://support.industry.siemens.com/cs/ww/en/view/81318674>