

# Filter

The Filter node forwards to the output the value coming from the input connector following some policies determined by the following properties:

- **Filter type:** It indicates the value assigned to the output depending on the input value.
  - '1 → - / 0 → - (*disabled*)' indicates that no values are assigned to the output.
  - ('1 → - / 0 → 0') if input is equal to 1, no value assigned to the output. If input is equal to 0, 0 will be sent to the output.
  - '1 → - / 0 → 1' if input is equal to 1, no value sent to the output. If input is 0, 1 is sent to the output
  - '1 → - / 0 → *Toggle*' if input is equal to 1, no value will be sent to the output. If input is equal to 0, the output will toggle.
  - '1 → 0 / 0 → -' If input is 1, output will be set to 0. If input is 0, no value will be sent to the output.
  - '1 → 0 / 0 → 1 (*inversion*)' indicates that the input value is inverted and then sent to the output.
  - '1 → 1 / 0 → -' indicates that if the input is 1, 1 is assigned to the output, if the input is 0, no values are assigned to the output.
  - '1 → 1 / 0 → 0 (*pass all*)' indicates that both of the input values are sent to the output.
  - '1 → *Toggle* / 0 → -': indicates that if the input is 1 the output value is inverted, if the input is 0 no values are assigned to the output.
  - '1 → *Toggle* / 0 → *Toggle*' for every input value (both 0 or 1), the output will toggle.
- 2. **Delay:** It indicates if it is necessary to wait for a time interval before sending the output value.
  - 'Do not use': disables the property so no delays are applied .
  - 'Use if input is 1': applies the delay only if the input is 1.
  - 'Use if input is 0': applies the delay only if the input is 0.
  - 'Use always': applies the delay for any input value.
- 3. **Delay base time:** It indicates the measurement unit of the time interval of the delay.
- 4. **Delay factor:** It indicates the value of the time interval of the delay.

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