

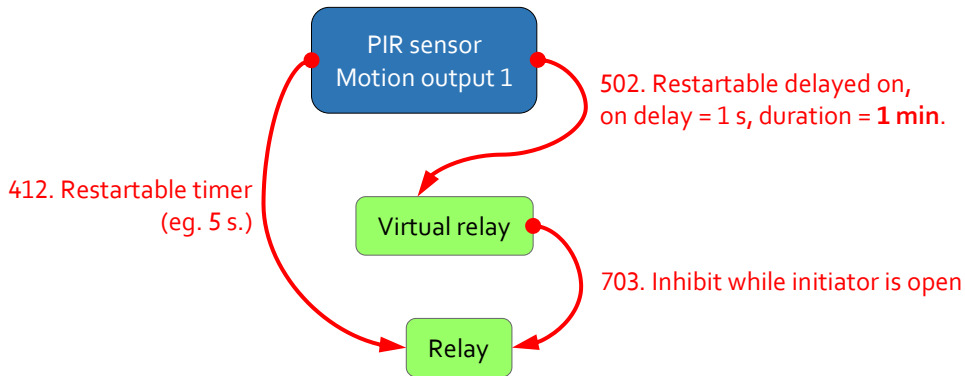
# FAQ: MOTION SENSOR SWITCHES AT SECOND MOVEMENT

## 1 QUESTION

How can I let a motion sensor switch a relay **only at the second movement within 1 minute** (to prevent false alarms)?

## 2 SOLUTION

Following actions need to be configured. The time frame in which a second movement needs to be detected (1 minute in this example), is configured by changing the off delay of the virtual relay.



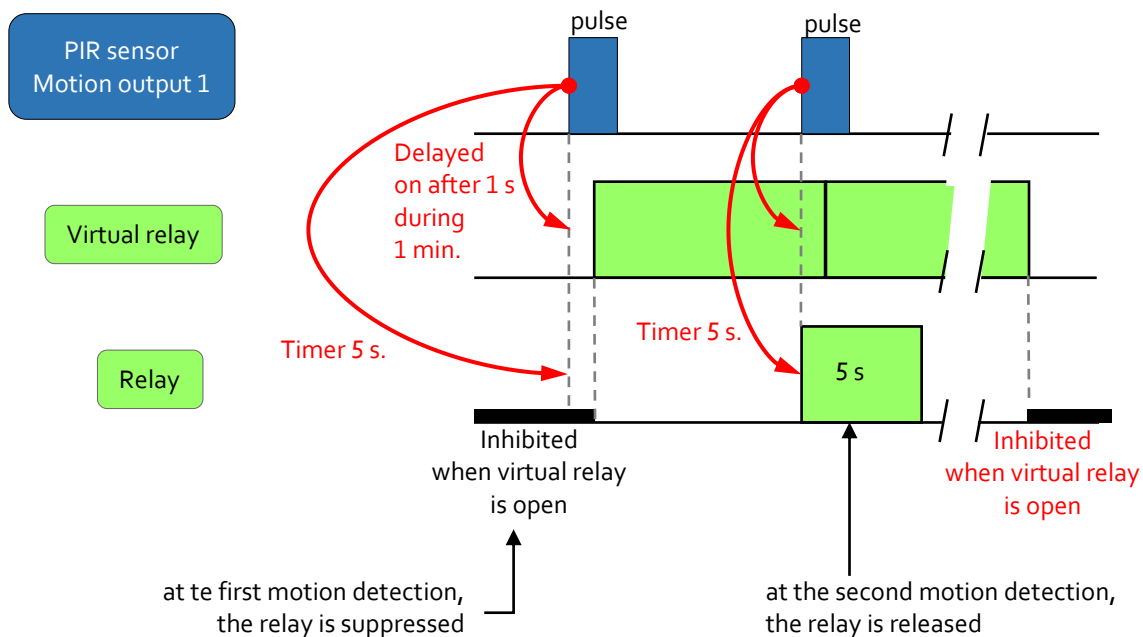
### 2.1 EXPLANATION

The PIR-sensor starts a timer of 5 seconds on the relay. Without further actions, the relay would close for 5 seconds at every detection.

To prevent the relay from closing at the first detection, we suppress it through a virtual relay:

- the PIR sensor switches on (closes) the virtual relay during 1 minute (restartable timer)
- only during this minute, the relay is released (“inhibit when opened” from virtual relay)
- detail: we need to give the timer on the virtual relay an on delay as well (eg. 1 second), to prevent releasing the relay from the first detection

For clarification, the scheme below shows the operation in time.





For a general explanation about Velbus, please consult the installation manual at [www.velbus.eu](http://www.velbus.eu).

Always use the latest version of Velbuslink. This can be downloaded for free at [www.velbus.eu](http://www.velbus.eu) > Support > Downloads.