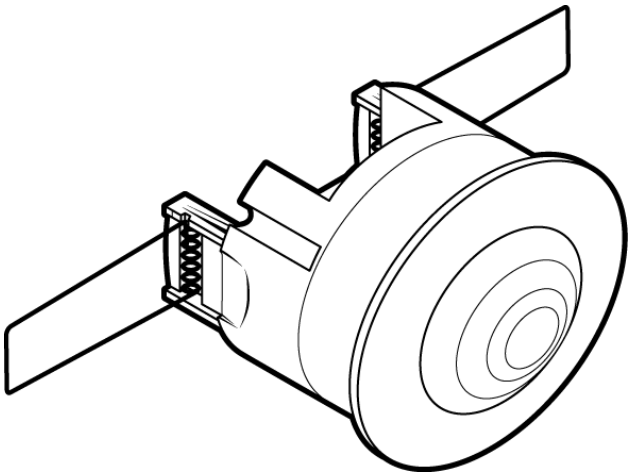
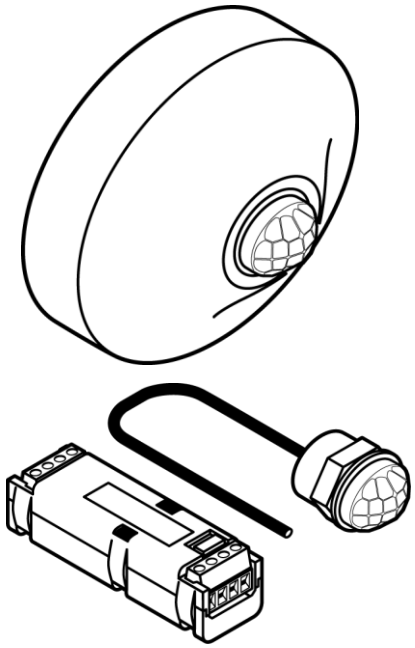
VMBPIRC
Motion and twilight sensor for ceiling mounting

VMBPIRM
Mini PIR motion sensor

Manual





Makes life easy

Content

1. Possibilities

1.1. Six simultaneous output channels

- ✓ **2 x twilight sensor** ("light" and "dark") with adjustable thresholds
- ✓ **2 x motion detection** with adjustable timers
- ✓ **2 x light dependent motion detection**: reaction on movement *only when it's dark enough*. With adjustable twilight thresholds.
- ✓ **Time-dependent operation:** All output channels can be programmed separately to be locked or unlocked at certain times. With built-in astronomical clock (sunrise and sunset).

All channels work independently.
E.g.: motion detection (light-independent) can be used as alarm, and at the same time the light-dependent operation can switch light.

1.2. Intelligent operation

External override

When a linked light is manually operated, the motion sensor can be temporarily suppressed (this option can be enabled or disabled).

E.g.: the motion sensor switches a light which can be operated by a push button as well. The option "external override" temporarily disables the sensor when the light is manually switched on. When the light is manually switched off, the sensor is enabled again and resumes its automatic operation.

Ignore influence of linked light

Light-dependent motion detection will continue to work when the linked light shines into the sensor. The sensor will continue to detect motion so that the light does not switch off periodically and needs a "wave" to switch it back on.

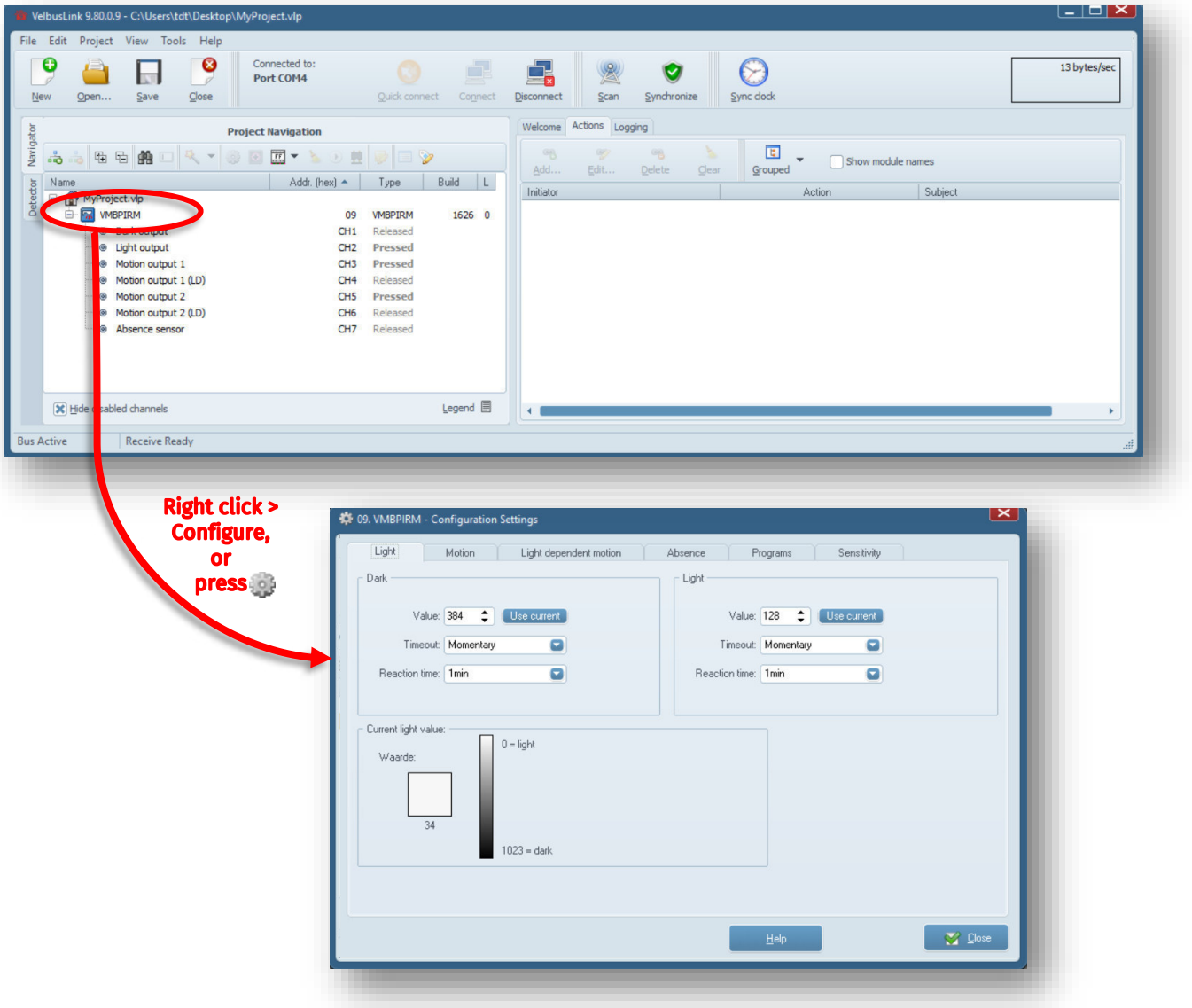
E.g.: the sensor switches on a light when it's dark (light-dependent). When the light switches on, it will shine into the sensor and "falsify" the light measurement. With a classic detector, the motion detection will not work as long as the light is switched on. However, the Velbus sensor will continue to detect motion while the light is switched on and restart the timer without switching off the light.

2. Configuration and use

For a general explanation about installing and configuring Velbus, please consult the installation manual on www.velbus.eu.

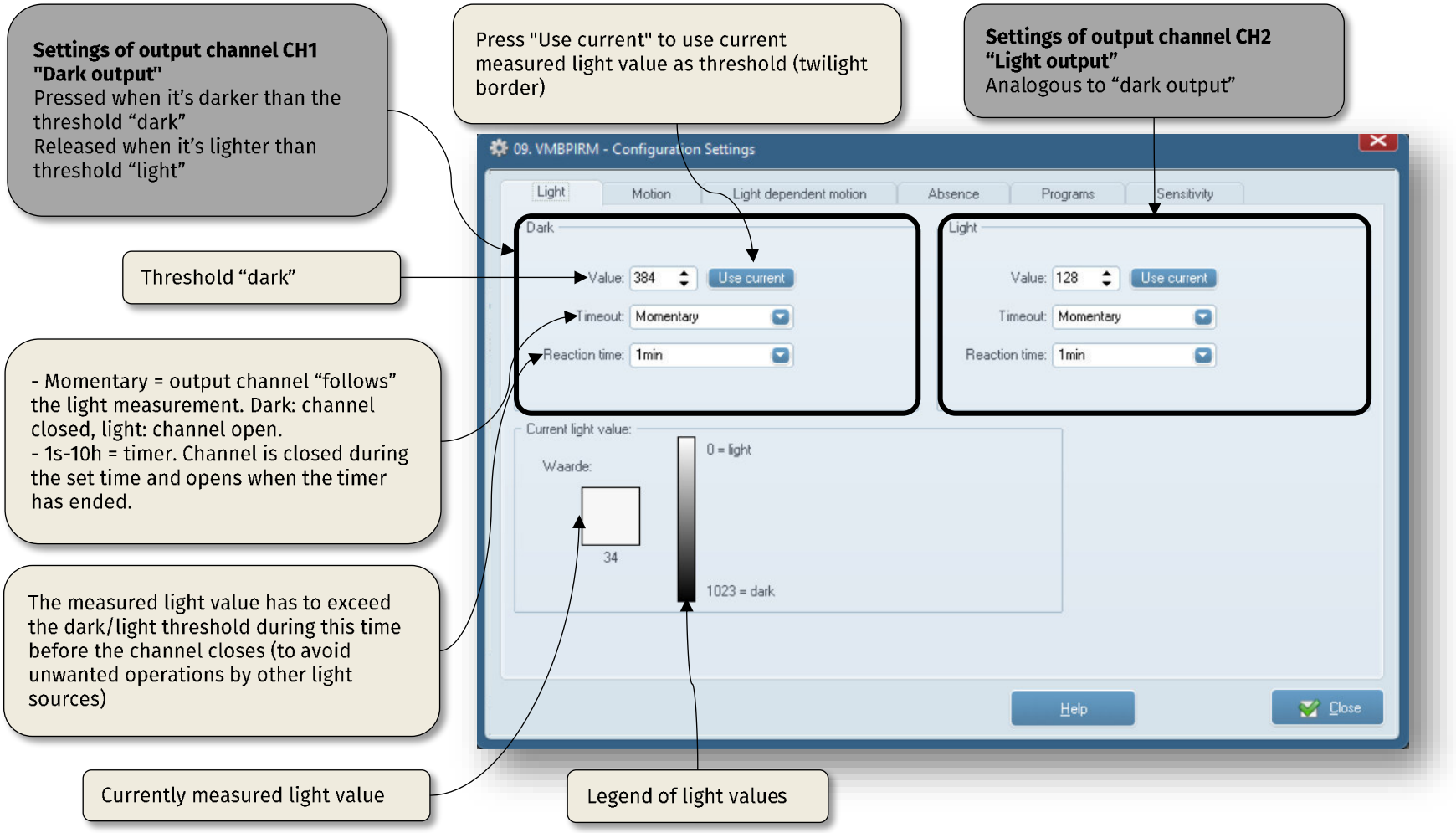
In the Velbuslink configuration software, the following configurations are available for the VMBPIRC / VMBPIRM (right click on the module > Configure).

Always use the latest version of Velbuslink. This can be downloaded for free at www.velbus.eu > Support > Downloads. For the VMBPIRC / VMBPIRM, Velbuslink version 9.42 or higher is needed.

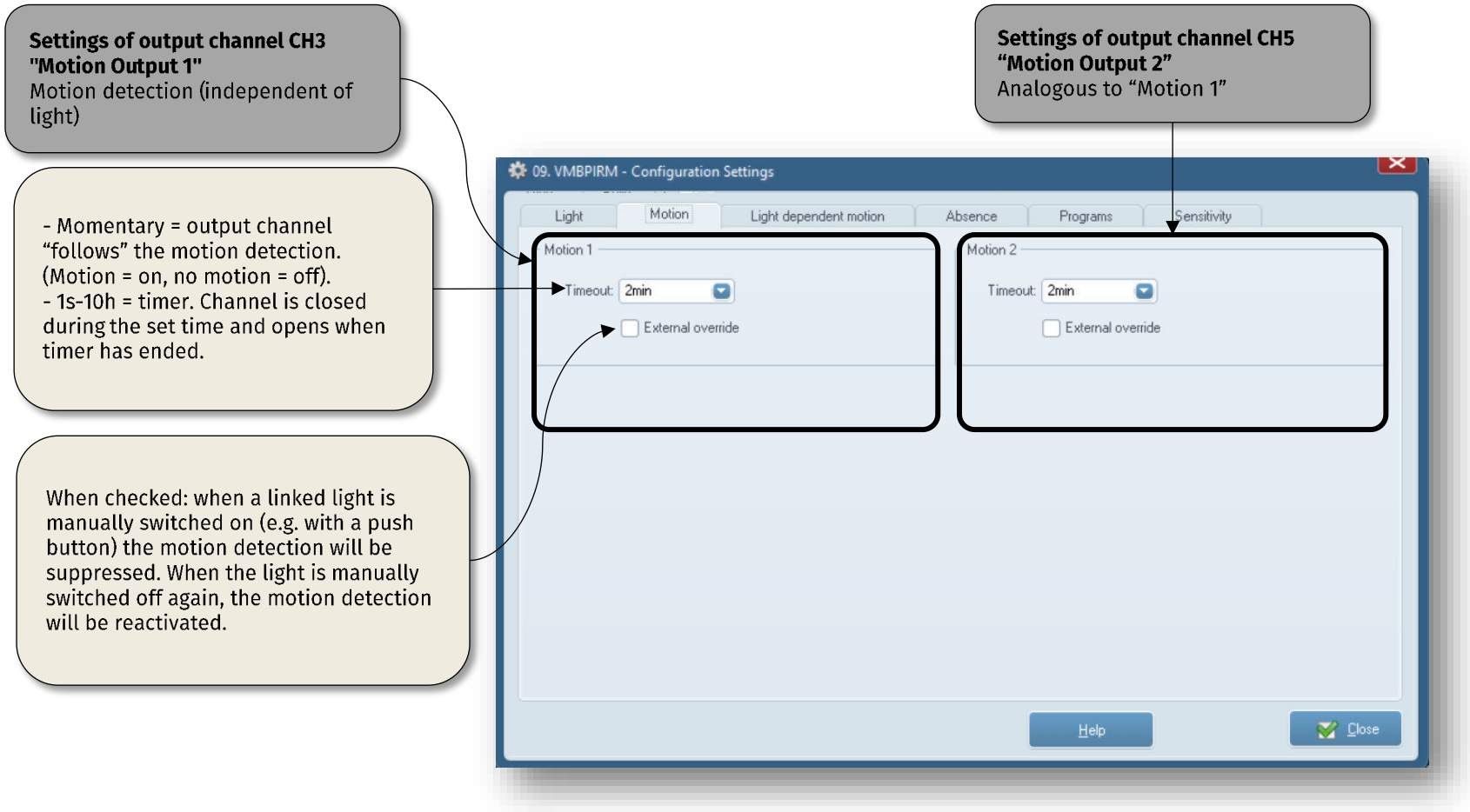


2.1.Settings of the twilight sensor

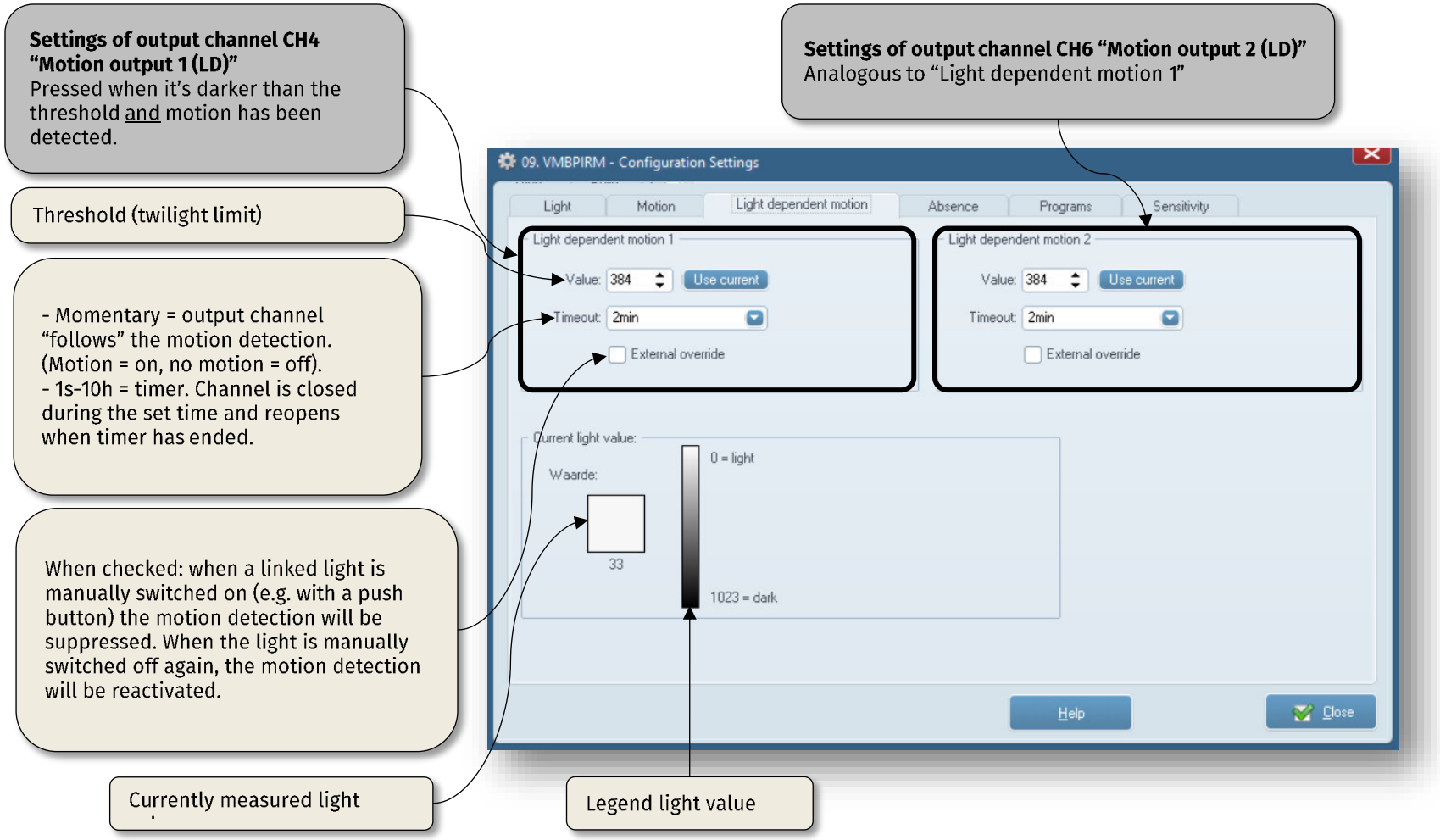
Caution: the twilight sensor is developed for use in the twilight zone and at complete darkness, not during the day.



2.2. Settings of the motion sensor



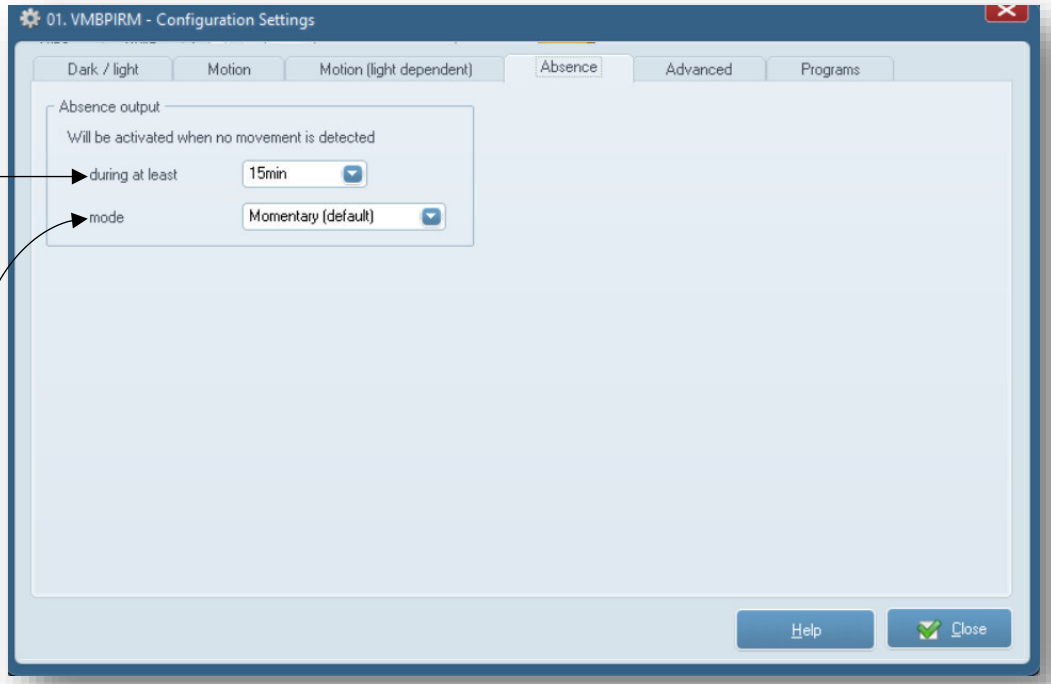
2.3. Settings of the light-dependent motion detection



2.4. Settings of the absence detection

Output channel “absence” is pressed when during this configured time no motion is detected.

Momentary (default):
When absence is detected, the output channel is pressed until motion is detected. At that time, the output channel is released until absence is detected again.
Pulse (1 second):
Every time absence is detected, a pulse is sent. The rest of the time the channel stays open.

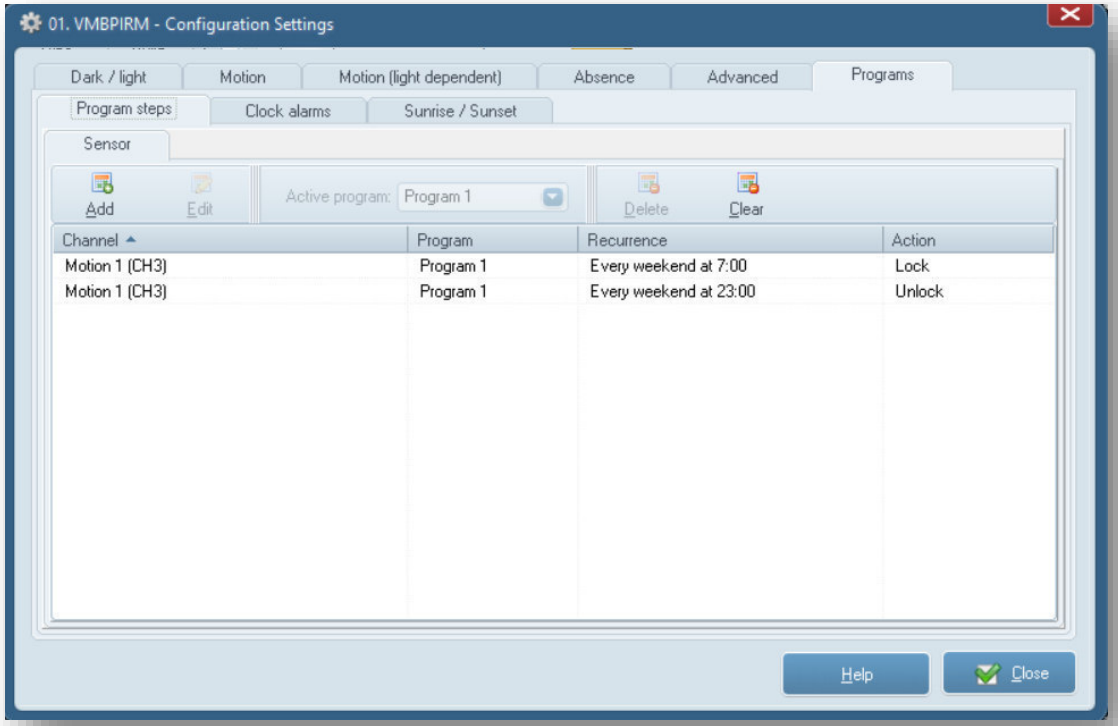


2.5. Timers

Timers (program steps) make time dependent operation possible. The twilight, motion and light dependent motion detection can be locked and unlocked at specific times, independent of each other.

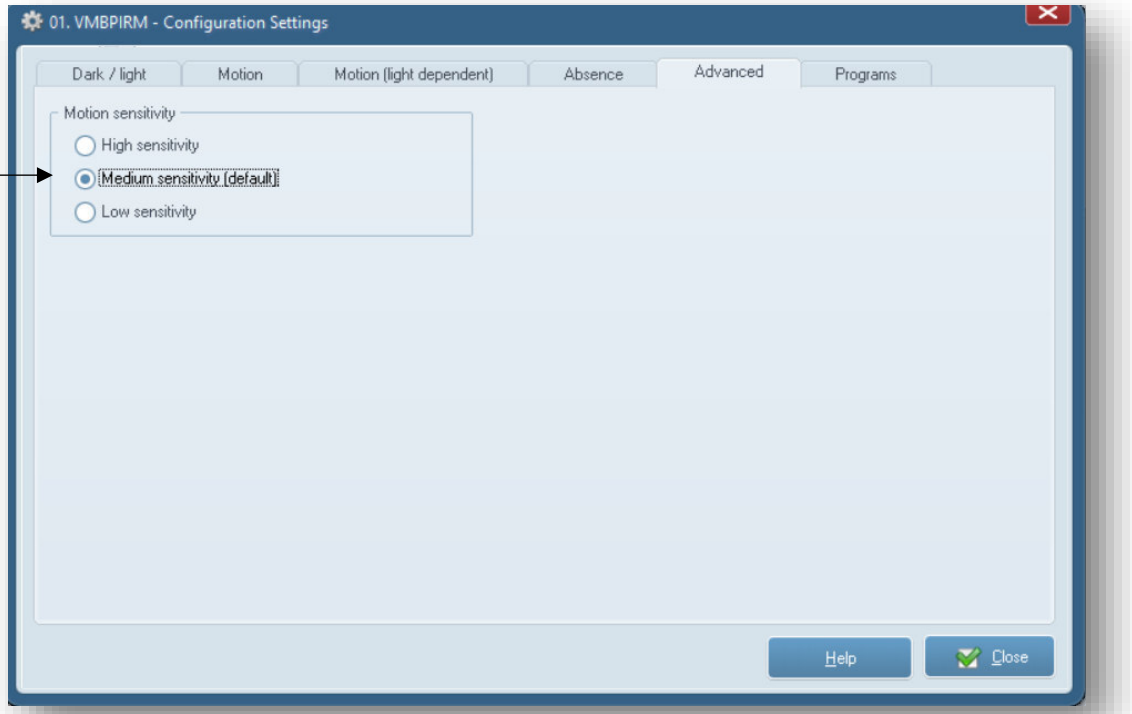
Programs are configured in the same way as with other Velbus modules. Please consult the general instructions on www.velbus.eu.

In example below the output channel “Motion 1” is locked (inactive) every Saturday and Sunday between 7:00 and 23:00.



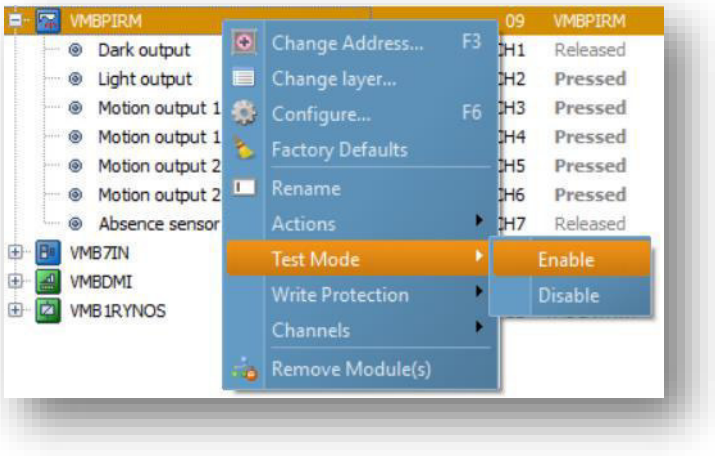
2.6. Configuration of the sensitivity

Puts the motion sensor in high, medium, or low sensitivity.



3. Test mode

The sensor can be put in “test mode” by right-clicking on the module in Velbuslink and enabling “Test mode (PIR)”. In “test mode” darkness is simulated and all reaction times and timeouts are disabled (set to 0 or Momentary) to ensure that the sensor reacts immediately to every motion. “Test mode” can be deactivated by selecting “Test Mode (PIR)” > “Disable”, and stops automatically after 30 minutes, to avoid that the sensor stays unwanted in “test mode”. **When using automatic detection in Velbuslink, it’s recommended to put the module in “test mode”.**



4. Remarks

4.1. Configuration of timers

Default operation: put the “timeout” of the sensor channel on 1 second, and use the action “15. Restartable timer” to close an output channel (e.g. a relay) during a certain period. (External override will not work in this case).

With external override: use the “timeout” of the sensor channel to configure the timer, and link the output channel with action “1. Momentary”.