SUPPORT INFORMATION

Intrusion | Access | Video

2020-10-02

WPIR LED-Behaviour and Sleep-Timer

This document outlines the WPIRs LED behaviour as well as its internal Sleep-Timer and the update mechanics that influence this timer.

Table of content

VANDERBILT

1. LED-Behaviour

Each WPIR has an individual LED setting to either Enable or Disable the LED indication.

While LED indication is enabled, the detectors LED (red) will activate on any occasion, the detector transmits a open/close/tamper signal to the panel.

While LED indication is disabled, the WPIR will not light up to indicate movement detection, independent from the area's status nor the panels programming mode.

However, while in walk test or when the Engineer selects the WPIRs individual input log, the detector is flagged for « test mode »
In this state the WPIRs LED is flashing green constantly and turns red during movement detection no matter the LED indication setting.

2. Internal Sleep-Timer

To save battery life, the WPIR operates with an internal sleep timer.
This 30 second timeout window prevents the detector transmitting constant movement detections to the panel.
When this timer is active, the WPIR will only transmit movement detections once it did not register any movement for a minimum of 30 seconds. Consequently, any movement within this timeframe will reset the 30 second window.

This sleep timeout window does not apply in certain modes but is dependent on the SPCs status. This intelligence combines reliability of detection with the ability to conserve battery life.

When the detector's assigned area is disarmed, the 30 second sleep timer applies as described above.
In an armed area however, no sleep timer applies. All movement detection is transmitted.

This behaviour is system defined and cannot be altered through user configuration.

2.1. Panel State Update

Its paramount to take the SPC-WPIR arming status update in mind.

There is no direct command sent to the WPIRs when their respective area is armed/disarmed. Instead, the detector receives the area status update with the next acknowledge signal sent back to him by the SPC. Such an acknowledgement signal is sent as an answer to a detection/tamper or a supervision signal transmission.

Consequently, while still in sleep mode, the WPIR will only receive the area status update if one of the following happens:

- Sleep timer (30 seconds) runs out and new motion detection is transmitted
- Supervision signal sent
- Tamper signal is raised

#3 is the least likely to happen and does not require further discussion.

#2 is happening on a regular basis. The interval can be adjusted from within the wireless settings and ranges from 1 to 30 minutes (7 is the default).

#1 depends on the detectors position and arming procedure.

The following example describes the most extreme combination of settings and procedure that, even if unlikely, could still occur in the field.

- Supervision interval set to 30 minutes.
- WPIR is positioned to see a Keypad that is used for arming.

During the arming process the WPIR recognized the person in front of that keypad and keeps refreshing its 30 second sleep timer.
Just before the arming process occurs, the last supervision signal was acknowledged.

Result: After the area has armed, this WPIR detector will not raise an alarm for the 30 second sleep period. If the person continues to move within the detectors field of view, the 30 second timeout will continue be reset and therefore stay in sleep mode. Until the detector gets an update received from the SPC panel, the WPIR still assumes the area is still unset.

Even though unlikely, the person could stay within the WPIRs view for up to 30 mins without raising an alarm. Its only until the next supervision signal is sent to the panel, that the WPIR receives a transmission/acknowledgement that the SPC is now in the armed mode. This then cancels the sleep timer and the next movement within the detectors field of view will generate an alarm.

SUPPORT INFORMATION

If you have any questions, please contact our Technical Competence Centre.

Contact details can be found on our website.

Vanderbilt International GmbH

Borsigstrasse 34
65205 Wiesbaden
Germany