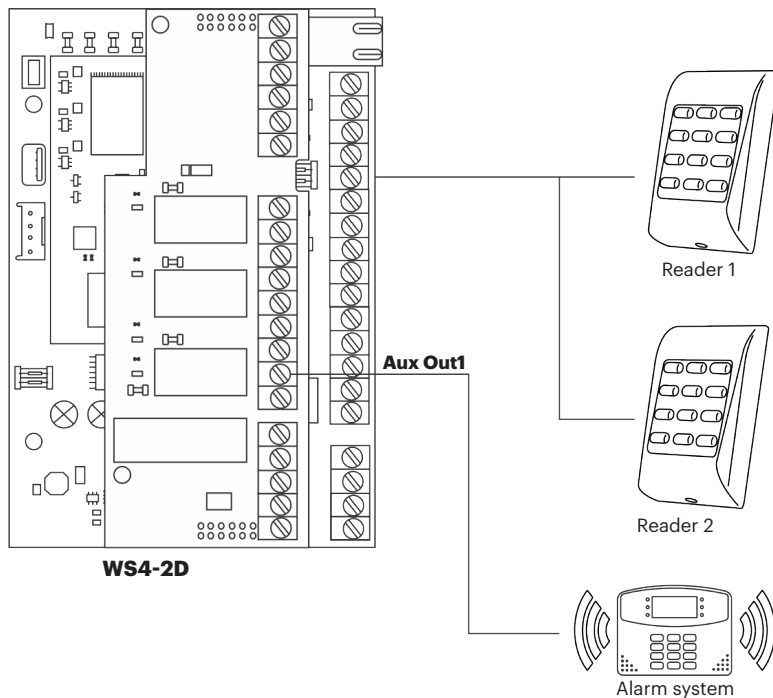# Alarm application in WS4 system

APPLICATION NOTE

ONLine Access

Integrate alarm in WS4 | 0002

When the first user enters the premises, the Alarm will be automatically disarmed, when the last user leaves the premises, they type a PIN Code, all the readers are beeping, and after the beep, the Alarm is armed. The delay after typing the PIN Code can be set from 5 to 60 seconds. In the same period, the readers are beeping, indicating that the alarm system will be turned ON. This signal warns the users who could still be inside that the alarm will soon be armed. They must then quickly identify themselves on one of the readers of the installation. At the end of the selected time, if no one has manifested, the presence relay is switched off. The firmware for this option is 2.30 and higher.
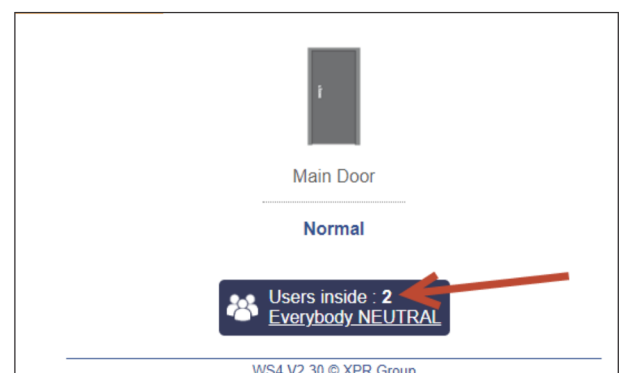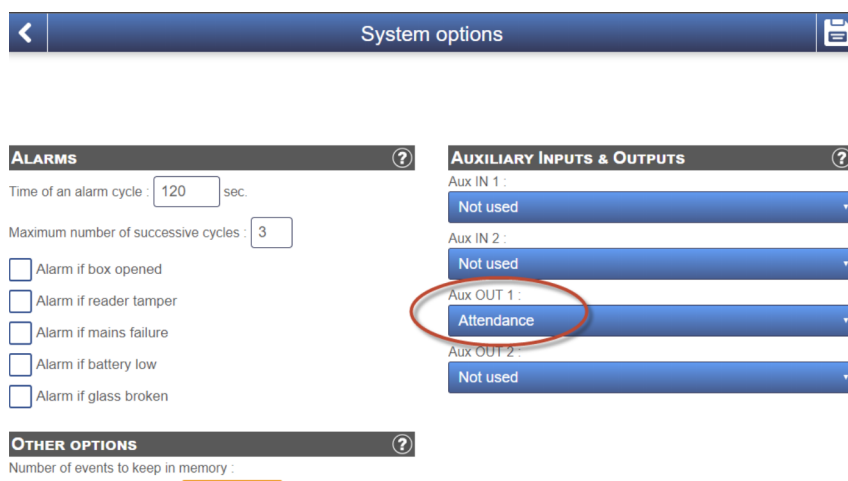
WIRING

WS4-2D

Aux Out1

Reader 1

Reader 2

Alarm system

For alarm application, you need one or two Keypad+Proximity readers. Connect the alarm system to Output 1.

SETTINGS IN THE SOFTWARE

Make the auxiliary Output 1 to be activated by "Attendance". With this, the Output will be activated as soon as there is at least one person in the premises (first man in), and it will deactivate when the premises are empty (last man out).
Go **to Settings/System options** and for Aux Out 1 select "**Attendance**".

System options

ALARMS

Time of an alarm cycle : 120 sec.

Maximum number of successive cycles : 3

☐ Alarm if box opened
☐ Alarm if reader tamper
☐ Alarm if mains failure
☐ Alarm if battery low
☐ Alarm if glass broken

OTHER OPTIONS

Number of events to keep in memory :

AUXILIARY INPUTS & OUTPUTS

Aux IN 1 :
Not used ▾

Aux IN 2 :
Not used ▾

Aux OUT 1 :
Attendance ▾

Aux OUT 2 :
Not used ▾

Main Door

Normal

Users inside : 2
Everybody NEUTRAL

WS4 V2.30 © XPR Group

v.a1

If you use two readers (in and out), set the first as "Input" and the other as "Output". It is best if you put the readers in Anti-Pass back, so the counting of the users would be correct.

If you use one reader, put it as "Input".

Go to **Settings/User options** and set the **PIN Code** that will be used for arming the Alarm. It is actually **Reset Code** for attendance. As soon as it is typed, the Attendance will go to 0 and Aux Output 1 will be deactivated.
You can select the time how long the delay would be for the alarm, by selecting the time for "Buzzer when the last person leaves"

You can choose the time at which you want to reset all users to Neutral. When reset time is selected, all the reader backlight are RED. At the end of the selected time, even if some users have forgotten to swipe the card/fob f 3 times during the unlock time on entrance or exit reader, the AUX OUT relay is switched OFF.

❯ HOW TO USE ALARM CODE

When the last person leaves, all readers of the installation will emit an intermittent sound, or when all present users are reset to neutral. If the relay attendance is used to control a burglar alarm system, this signal warns users who could possibly still be inside that the alarm will soon be armed. To reset the attendance relay and activate the burglary alarm system, the last user must identify themselves and swipe the card/fob 3 times during the unlock time on the entrance or exit reader. At the end of the selected time, if no one is identifying himself on the entry/exit reader, the AUX OUT relay is switched OFF.

PIN code is used to reset to a neutral state for all the users still inside. It can be used from any access point with a keypad.

If you want to change the PIN Code length, go to Settings/Configuration of readers.

If you are using Anti-passback, make sure that the Users are in a category that is subject to Anti-passback. Please note that, by default, the Full Access category is not subject to Anti-passback.

All product specifications are subject to change without notice.