



## Regulations regarding Paxton10 and intruder alarm systems

### Overview

This document serves as a guide to best practice based on interpretation of the applicable standards. It identifies the key regulatory issues that installers must consider when integrating Paxton10 with an intruder alarm system. For more details, please refer to the relevant standard.

### Regulations in the UK

#### BS8243:2010

In the UK BS8243:2010 (formally the Association of Chief Police Officers guidelines published under DD243: 2004) has been released to help to reduce the number of false alarms resulting in police call outs. Other EU countries have similar standards.

Key features include:

- The intruder alarm system must be installed so that there can be no entry into the supervised premises until the intruder alarm system has been unset.
- No alarms can occur after the initial entry door has been unlocked.
- The alarm status should not be displayed externally, except for a maximum of 180 seconds after setting the intruder alarm and 30 seconds after un-setting the intruder alarm.
- Any powered external door lock should remain secure (i.e. no false release) for a minimum of 4 hours in the event of failure of the prime power source.

#### BS4737

From 1st October 2005, BS 4737 and other similar British Standards were no longer compliant for new installations.

## Status LED's - reader indication

Any reader assigned to set the alarm will display the following LED indications:-

Default (Access Control - Idle) - Alarm Set or Unset – Solid White.

### UNSET the Alarm

- Successful Flashing Green (door unlocked).
- Failed Flashing Red.

### SET the Alarm

- Successful Solid Red for 30 seconds followed by Solid White.
- Failed Flashing Green for 7 seconds then Solid White.

(The intruder alarm panel should be programmed to give an audible warning if it fails to set).

### Statement

This feature is suitable for use in PD6662: 2010, security grade 1, 2 & 3 and environmental class I, II and III intruder alarm systems and can be used in a BS8243:2010 compliant installation.

## Regulations for the rest of Europe

EN50131 (and relevant sub parts) apply. However, regional variances or opt-outs may also apply so advice would need to be offered on a per country basis.

The key requirements remain as listed above.

- On Grade 3 security systems, there must be a minimum of 10,000 potential user codes. By using a Paxton Proximity reader as above, this limit is easily exceeded.

## Number and positioning of Paxton Proximity readers

Two separate Proximity readers must be used to set and unset the system.

- The Paxton Proximity reader used to **UNSET** the system must be located outside of the protected premises preventing entry to the supervised area before the intruder alarm system is unset.
- The Paxton PROXIMITY reader used to initiate **SETTING** the intruder alarm system should be located close to the intruder alarm system panel; the alarm status should be visible during the setting procedure.

The system should be configured as detailed, see:

AN0032 – How to add an intruder alarm to Paxton10 < [Paxton.info/4989](http://Paxton.info/4989) >

## EN50131-1:2006

Paxton10 alarm integration is suitable for use with EN50131. See also:

AN0032 – How to add an intruder alarm to Paxton10 < [Paxton.info/4989](http://Paxton.info/4989) >

The key issues to understand are:

This and other intruder alarm system regulations refer to 'access levels' as a means of defining the authorization required to program and manage the alarm system. These should NOT be confused with Paxton10 permissions.

- Access level 2 authorisation is required for any user who has alarm set and unset privileges. Level 2 is also a requirement to view the Event Log. Therefore, it is important to ensure that only intruder access level 2 users are given Paxton10 Buildings permissions and Events software permission to the Intruder alarm.

- Access level 3 authorisation is required for adding or deleting intruder level 2 users and codes. Therefore, it is important to ensure that only intruder access level 3 users are given Paxton10 software permissions to the Intruder alarm, including any Building permissions and People groups that contain this functionality.

It must not be possible to compromise the alarm system by substituting external component parts; Paxton Proximity readers send encrypted data only, therefore contain no decision making hardware and cannot be bypassed or substituted.

## BS EN50131:3:2009

For graded systems the alarm connector board should be located within the alarm panel to ensure the necessary tamper protection.

### Statement

This feature is suitable for use in EN50131-1: 2006 security grade 1, 2 & 3 and environmental class I & II, intruder alarm systems.