VIDEX
The Power to Secure

2213 REMOTE RELAY FOR THE VX2200 SYSTEM

Secured by Design

Official Police Security Initiative

TECHNICAL MANUAL EDITION 1.0.0

CONTENTS

MANUAL INTRODUCTION

The information in this manual is intended as an installation and commissioning guide for the 2213 remote relay. This manual should be read carefully before the installation commences. Any damage caused to the equipment due to faulty installations where the information in this manual has not been followed is not the responsibility of Videx Security Ltd.

VIDEX run free training courses for engineers who have not installed this system before. Technical help is also available on 0191 224 3174 during office hours or via e-mail tech@videx-security.com. An electronic copy of this user manual is available for download by scanning the QR code to the right.

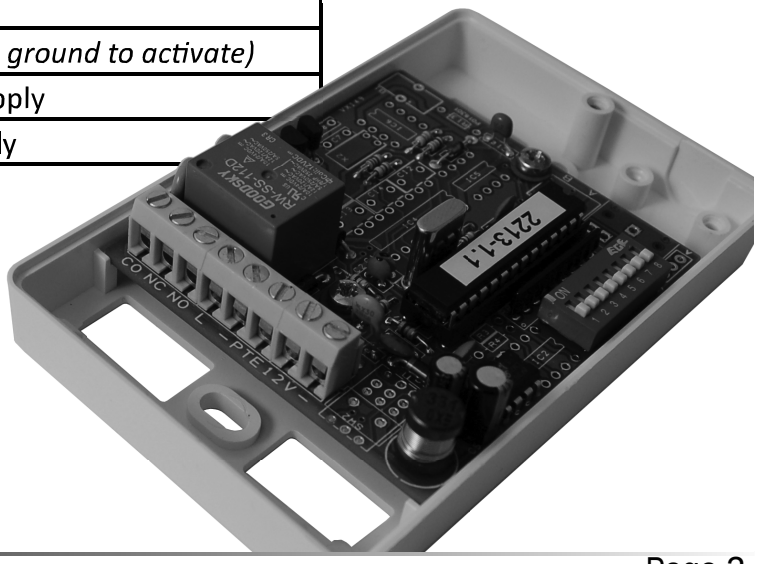
The 2213 remote relay device is designed for the VX2200 system. All entrance panels on the VX2200 system include the lock release relay and push to exit button input inside the entrance panel. For higher security applications including installations in compliance with 'Secure By Design' the 2213 enables the relay and push to exit button input to be installed in a secure location away from the entrance.

OPERATION

The 2213 device number should be set to match the device number of the entrance panel it is associated with (Dip switches 1-4). When the relay command is received from a telephone, the entrance panel (via the coded access facility) or a concierge, the relay will activate for the programmed time (Dip switches 5-8). Activating the PTE input on the 2213 will also active the relay for the programmed time. Lock release cables and push to exit cables should not run through the entrance panel back box or any unsecure locations to maintain the highest security. The relay in the entrance panel along with the PTE input in the entrance panel will not be used and should remain unconnected (In the event of someone activating the PTE on the entrance panel it will have no effect on the 2213 relay).

CONNECTIONS

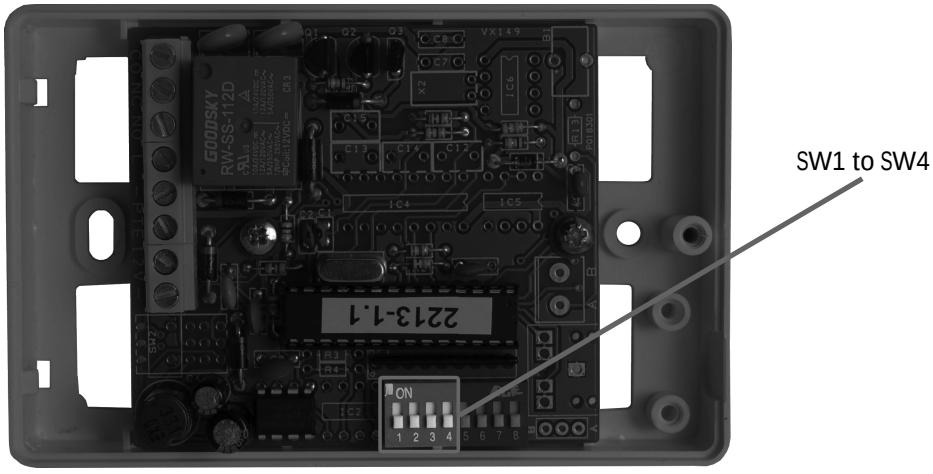
Connection	Description
CO	Common connection of the relay
NC	Normally closed connection of the relay
NO	Normally open connection of the relay
L	Bus connection
-	Bus ground connection
PTE	Push to exit input *(short to ground to activate)*
12V	12V-14Vdc from power supply
-	0V input from power supply



DIP-SWITCH SETTINGS

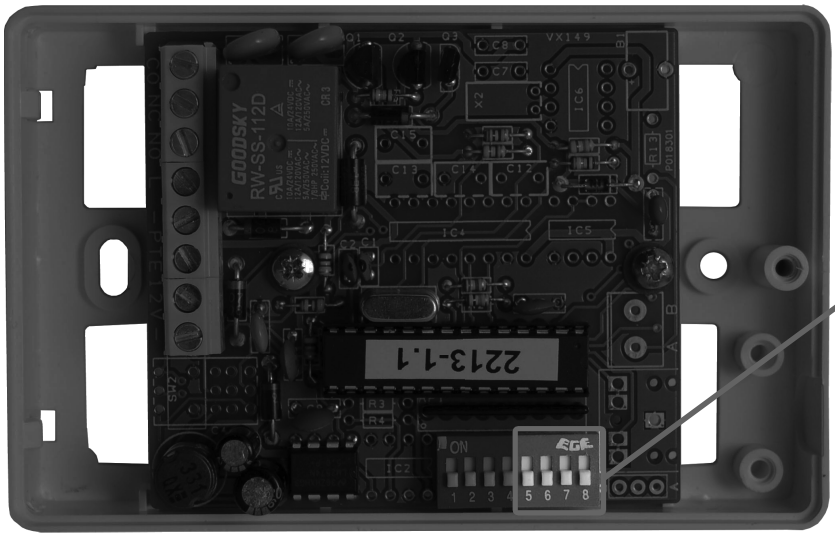
Dip-switches SW1 to SW4 sets up the device number of the 2213.

Setting Device Number					
Device Number	SW1	SW2	SW3	SW4	Switch position
1	OFF	OFF	OFF	OFF	
2	ON	OFF	OFF	OFF	
3	OFF	ON	OFF	OFF	
4	ON	ON	OFF	OFF	
5	OFF	OFF	ON	OFF	
6	ON	OFF	ON	OFF	
7	OFF	ON	ON	OFF	
8	ON	ON	ON	OFF	
9	OFF	OFF	OFF	ON	
10	ON	OFF	OFF	ON	
11	OFF	ON	OFF	ON	
12	ON	ON	OFF	ON	
13	OFF	OFF	ON	ON	
14	ON	OFF	ON	ON	
15	OFF	ON	ON	ON	
16	ON	ON	ON	ON	



Dip-switches SW5 to SW8 sets up the relay time of the 2213.

Setting Relay Time					
Relay Time	SW5	SW6	SW7	SW8	**Switch position**
1 second	OFF	OFF	OFF	OFF	
2 seconds	ON	OFF	OFF	OFF	
4 seconds	OFF	ON	OFF	OFF	
6 seconds	ON	ON	OFF	OFF	
8 seconds	OFF	OFF	ON	OFF	
10 seconds	ON	OFF	ON	OFF	
12 seconds	OFF	ON	ON	OFF	
14 seconds	ON	ON	ON	OFF	
16 seconds	OFF	OFF	OFF	ON	
18 seconds	ON	OFF	OFF	ON	
20 seconds	OFF	ON	OFF	ON	
22 seconds	ON	ON	OFF	ON	
24 seconds	OFF	OFF	ON	ON	
26 seconds	ON	OFF	ON	ON	
28 seconds	OFF	ON	ON	ON	
30 seconds	ON	ON	ON	ON	



INSTALLATION

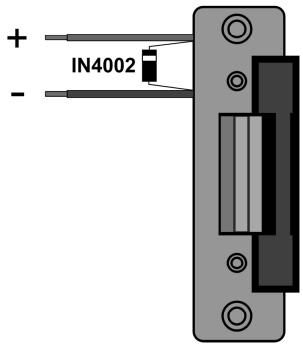
Initial Installation Checks

- Check that all components are free from damage before installing (Do not proceed with the installation in the event of damage).
- Keep all packaging away from children.
- Do not obstruct the ventilation openings or slots on any of the devices.
- All connections to mains voltages must be made to the current national standards (IEE Wiring regulations)
- Install an appropriate fused spur or isolation switch to isolate the mains.
- Isolate the mains before carrying out any maintenance work on the system.
- Avoid water ingress into the module.
- It is important to power the lock release from a dedicated fused supply to avoid a short in the entrance panel cabling powering down the lock release.
- All intercom and access control cables must be routed separately from the mains.

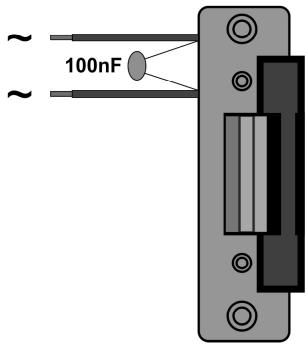
Lock Release Wiring and Back EMF Protection

When fitting an electric lock release back EMF protection will be required. If fitting an AC lock release then a 100nF ceramic disc capacitor must be fitted across the terminals on the lock. If fitting a DC lock release (fail secure or fail safe) then a 1N4002 diode must be fitted across the terminals on the lock.

DC Electric Strike



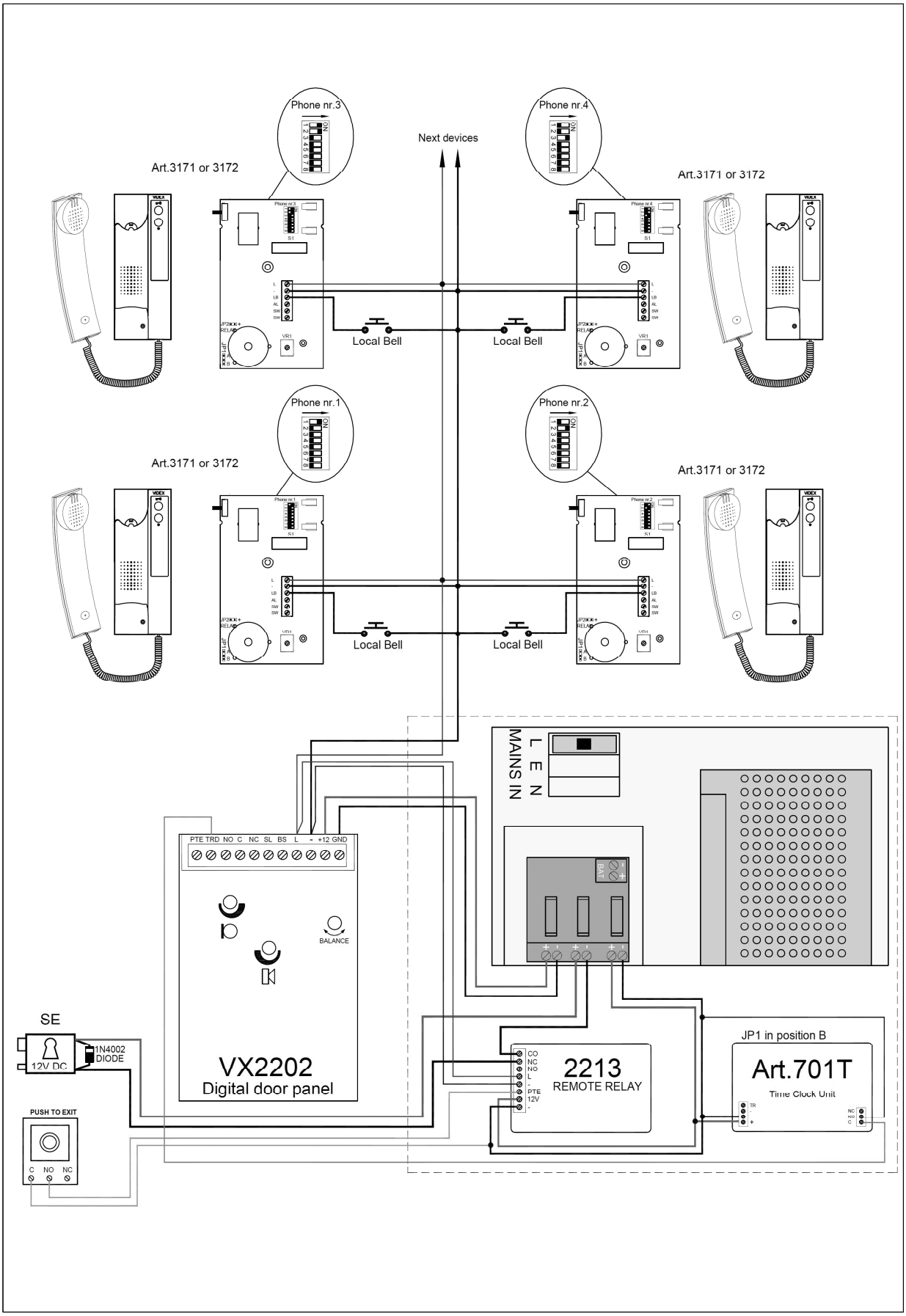
AC Electric Strike



TECHNICAL SPECIFICATION

Input Voltage	12V - 14Vdc
Current (standby)	6.5mA
Current (during relay activation)	41mA
PTE input open voltage	5Vdc
PTE input closed voltage	0Vdc
Bus voltage	8Vdc
Maximum bus cable resistance	7Ω
Relay Contacts	10A @ 24Vdc 12A @ 120Vac 5A @ 250Vac
Enclosure material	ABS plastic (white)
Enclosure dimensions	110mm (L) x 70mm (W) x 30mm (D)

WIRING DIAGRAM



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