

Secured by Design



Official Police Security Initiative



Technical Manual



CONTENTS

INTRODUCTION.....	3
OPERATION.....	3
TERMINAL CONNECTIONS.....	3
DIP-SWITCH SETTINGS.....	4 - 5
INSTALLATION.....	6
LOCK RELEASE WIRING AND BACK EMF PROTECTION.....	6
TECHNICAL SPECIFICATION.....	6
WIRING DIAGRAM.....	7

CUSTOMER SUPPORT


VIDEX SECURITY LTD

www.videxuk.com

Tech Line: 0191 224 3174

Fax: 0191 224 1559

Email: tech@videxuk.com

 CE conformity marking indicates that the product respects the requirements of the applicable European Community Directives in force specifically EMC 2004/108/ECC, LVD 2006/95/ECC and CE-MARKING 93/68/ECC. CE marking is applied by the manufacturer (or party delegated to do so by the manufacturer) under their own responsibility. It was created to eliminate obstacles to the circulation of products in European Union Member States by harmonising different national standards.

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 product before. Technical help is also available from the Technical helpline on tel: 0191 224 3174 during office hours (08:30am - 05:00pm) or via e-mail: tech@videxuk.com. An electronic copy of this user manual is available for download from the Videx website: www.videxuk.com.

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 'Secured 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

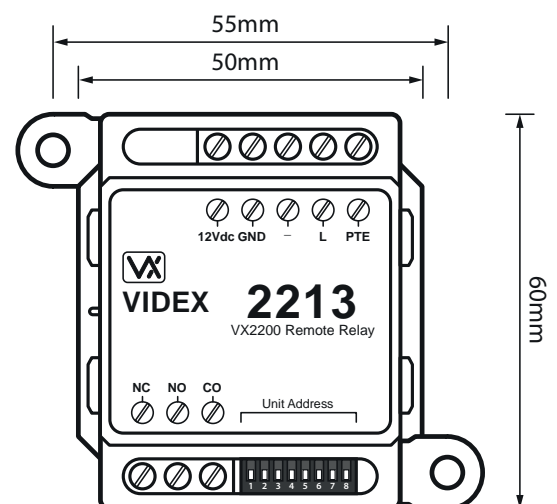
The 2213 device number should be set to match the device number of the entrance panel it is associated with (*dip switches 1-4*). When the relay command is received from a telephone, the entrance panel (*via the coded access facility*) or a concierge, the relay will activate for the programmed time (*dip switches 5-7*).

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 disconnected (*In the event of someone activating the PTE on the entrance panel it will have no effect on the 2213 relay*).

The 2213 can also be setup in local mode (*default*) or main mode (*using dip-switch 8*) for larger systems that have main entrances and local/sub entrances where 2206N bus exchange devices are used.

TERMINAL CONNECTIONS

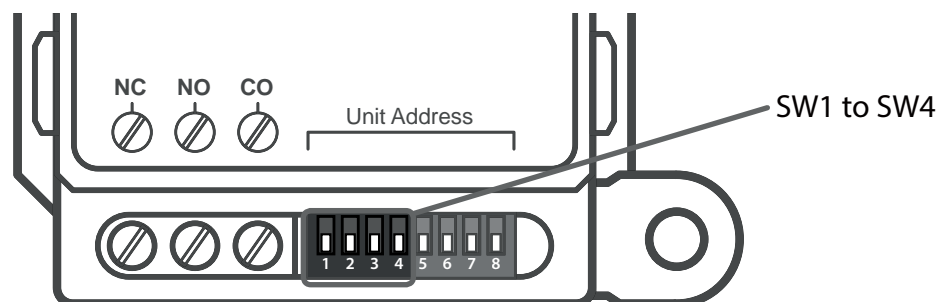
Connection	Description
12Vdc	12V-14Vdc input from power supply
GND	0V input from power supply
-	Bus ground connection
L	Bus connection
PTE	Push to exit input (<i>short to ground to activate</i>)
NC	Normally closed connection of the relay
NO	Normally open connection of the relay
CO	Common connection of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



DIP-SWITCH SETTINGS

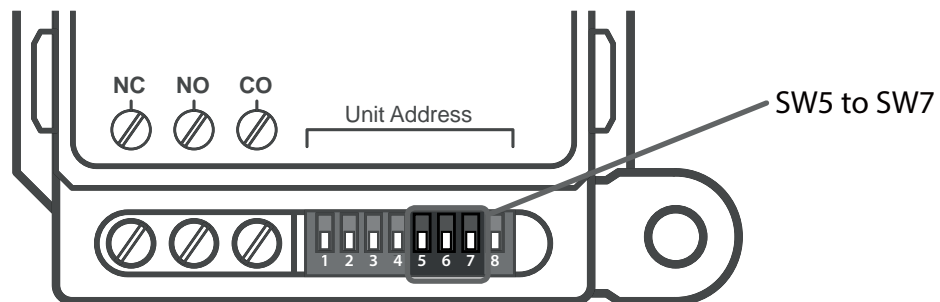
Dip-switches SW1 to SW4 sets up the device number of the 2213.

Setting Device Number					
Device No.	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	



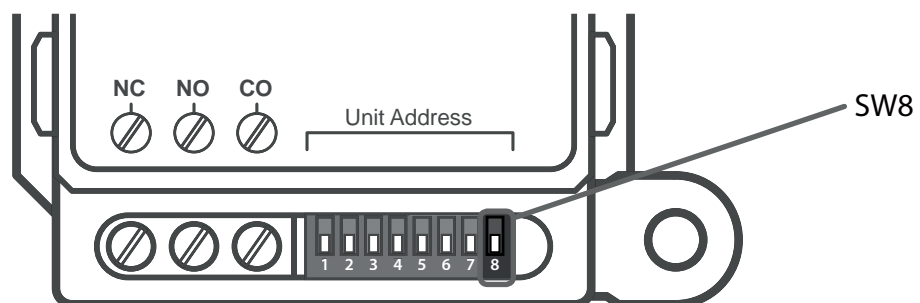
Dip-switches SW5 to SW7 sets up the relay time of the 2213.

Setting Relay Time				
Relay Time	SW5	SW6	SW7	Switch Position
1 second	OFF	OFF	OFF	
2 seconds	ON	OFF	OFF	
4 seconds	OFF	ON	OFF	
6 seconds	ON	ON	OFF	
8 seconds	OFF	OFF	ON	
10 seconds	ON	OFF	ON	
12 seconds	OFF	ON	ON	
15 seconds	ON	ON	ON	



Dip-switch SW8 sets up the operating mode of the 2213.

Setting Mode		
Operating Mode	SW8	Switch Position
Local (default) mode	OFF	
Main mode	ON	



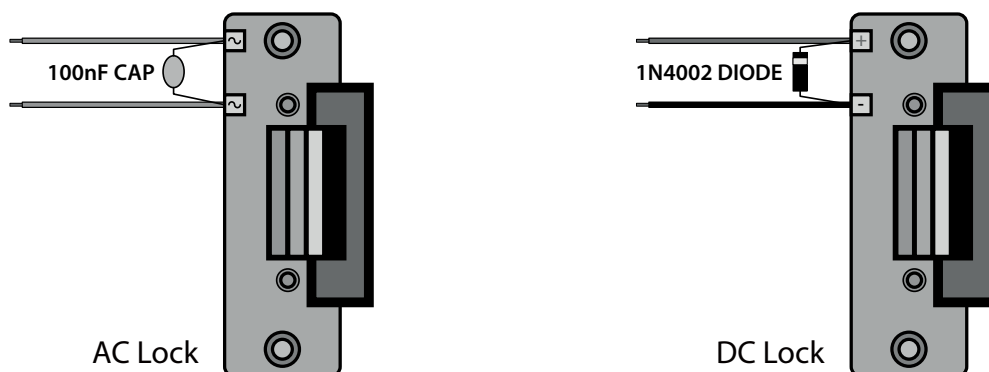
INSTALLATION

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 device 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

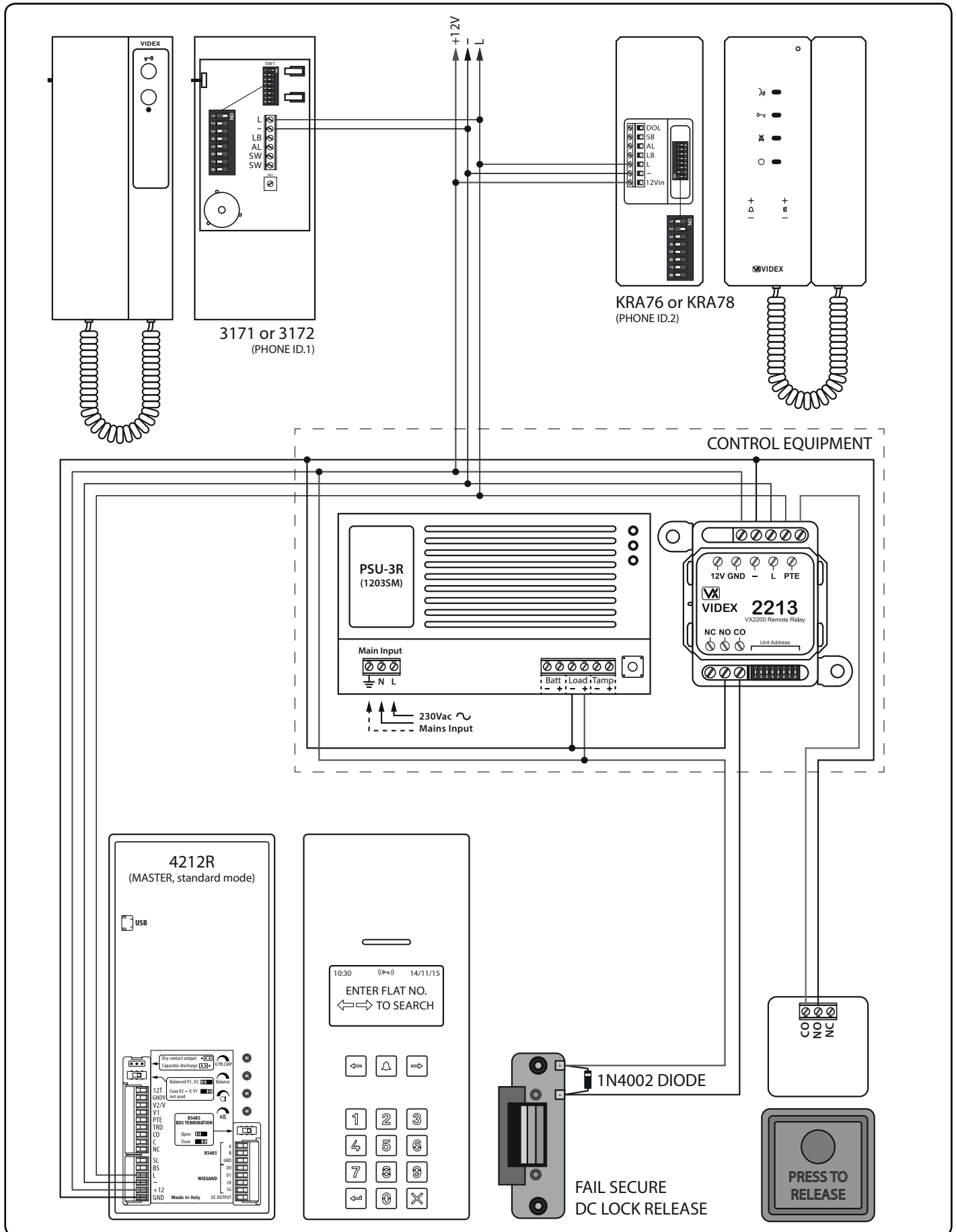
When fitting an electric lock release back EMF protection will be required. If fitting an AC lock release then a 100nF ceramic disc capacitor must be fitted across the terminals on the lock. If fitting a DC lock release (*fail secure or fail safe*) then a 1N4002 diode must be fitted across the terminals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



TECHNICAL SPECIFICATION

Input voltage	: 12V - 14Vdc
Current (<i>standby</i>)	: 6.5mA
Current (<i>during relay activation</i>)	: 41mA
PTE input open voltage	: 5Vdc
PTE input closed voltage	: 0Vdc
Bus voltage	: 7.5V - 8Vdc
Maximum cable resistance	: 7Ω
Relay contacts	: 10A @ 24Vdc, 12A @ 120Vac, 5A @ 250Vac
Enclosure material	: ABS plastic (<i>white</i>)
Enclosure dimensions	: 22mm (D) x 50mm (W) x 60mm (H)

WIRING DIAGRAM





Southern Office

Videx Security Ltd.
1 Osprey, Trinity Park
Trinity Way' London
E4 8TD

Northern Office

Videx Security Ltd.
Unit 4-7 Chillingham Industrial Estate
Newcastle Upon Tyne
NE6 2XX