Portacode[™] Electronic Keypad Multi-Output Models

Electrical Wiring Schematics

ELEC/INST/K3



RELAYS

Relay/output no. 1 = Terminals 5 + 6 in conjunction with jumper setting SW1
Relay/output no. 2 = Terminals 7 + 8 in conjunction with jumper setting SW2
Latching relay/output no. 3 = Terminals 7 + 8 in conjunction with jumper setting SW3
Anti-tamper/Alarm circuit = Terminals 11 + 12 (Closed contact when unit in situ).

JUMPER SETTINGS SW1, SW2 & SW3

Common - NOR = Relay closes (makes circuit) when keypad code entered. This setting is used when

operating a fail secure (locked) - power to unlock electric release.

Common - INV = Relay opens (breaks circuit) when keypad code entered. This setting is used when operating a fail safe (open) - power to lock electro-magnet or electric release.

VARISTORS RV1, RV2 & RV3

RV1 relates to relay no. 1 and jumper setting SW1.

RV2 relates to relay no. 2 and jumper setting SW2.

RV3 relates to relay no. 3 and jumper setting SW3.

Any relay connected to an automation system must have its corresponding RV cut-out.

NOTES:

- SW5 is the programming switch used only to set initial master code on installation.
- EX1, EX2 = Door release button sited internally. (Normally Open Contact)
- TR, TR1, TR2 = Trades Button controlled via a time clock. (Normally Open Contact)
- EMEX = Emergency break glass exit device. (Normally Closed Contact)
- 5. D1, D2 = Diode IN4001
- 6. VDR = Varistor

RECOMMENDED WIRING

Use 8 core (12 core if application demands) stranded alarm cable, rated 1 amp/core.

In the event of no timed output to the lock, wire the relevant + terminals of block J1 directly to 12V+ of power supply.

MODEL DGP ONLY

Facia LEDs:

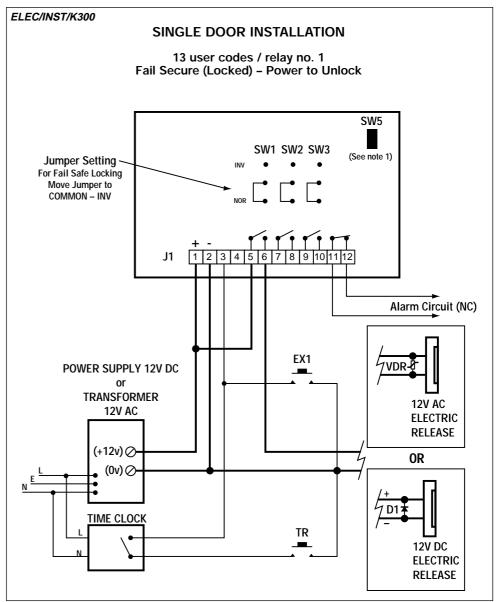
Green = Illuminates when valid code

entered

Red = Illuminated continuously when unit is powered

Orange = Flashes when latching relay

"ON"



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BASIC PROGRAMMING

TOP POINTS TO REMEMBER

- Master (Engineer) Code is always stored in Slot 30.
- User Codes are stored in Slots 01, 02, 03, 04.......26.
- Relay no. 1 is controlled by the User Codes stored in Slots 01 13.
- Relay no. 2 is controlled by the User Codes stored in Slots 14 26.



TIP - WHEN YOU ARE IN PROGRAMMING

Enter the numbers in quick succession after a beep. Do not wait more than 2-3 seconds in between entering numbers. If you have correctly programmed, you will hear a rapid series of beeps.

SET-UP ON INSTALLATION

Wire up according to appropriate electrical schematic for your installation, then power up the keypad. Flick Programming Switch SW5 and wait for the Portacode™ keypad to start beeping every 3 seconds.

STFP 1

Decide Now.....for how many seconds do you want the door to open when:

- Valid User Code is entered
- Internal exit button is pressed
- Tradesbutton is pressed



After a beep enter

00 05 05

The 2no. digits shown as underlined set the door open time in seconds (for relay no.1). The last 2no. digits set the door open time for relay no.2. A rapid series of beeps indicates that you have programmed successfully.

You must set the relay/lock command time for relay no. 2 even if you are not using relay no. 2. If you have linked relays 1 & 2 together, you must set the same open times for both.

STEP 2

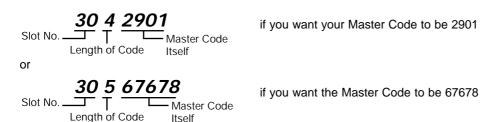
Now set the Master Code of your choice.

This is the code that allows you to access programming mode without having to open up the keypad and flicking switch SW5.

The Master Code is always stored in Slot 30.

The Master Code can be any length of digits/characters/symbols - minimum 3, maximum 8.

After a beep enter on the keypad:



These are examples only. SET THE MASTER CODE OF YOUR CHOICE

A rapid series of beeps indicates that you have programmed successfully.

STFP 3

Turn off programming switch SW5. You can now secure the front of the keypad to its housing on the wall.

STEP 4 PROGRAMMING/ADDING USER CODES

User codes can be any length of digits/characters/symbols - minimum 3, maximum 8.

User codes are stored in Slots 01-26. Example: 01, 02, 03... 26.

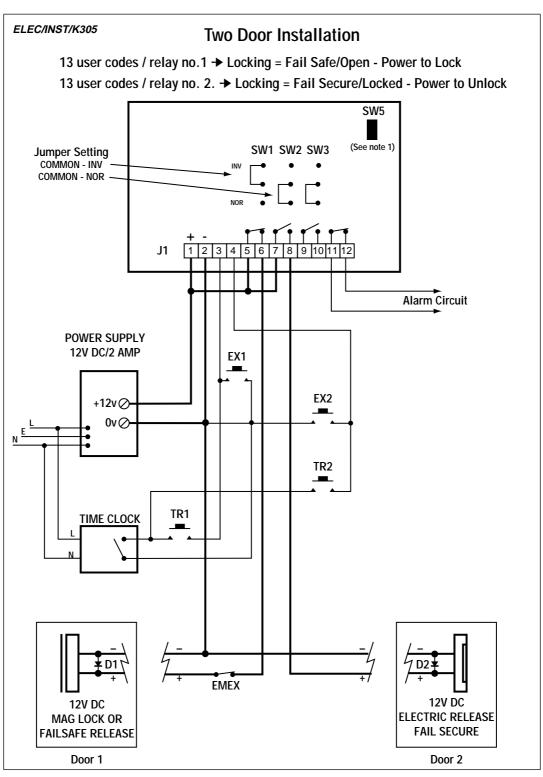
Enter the Master Code you set in STEP 2 and wait for the beeps.

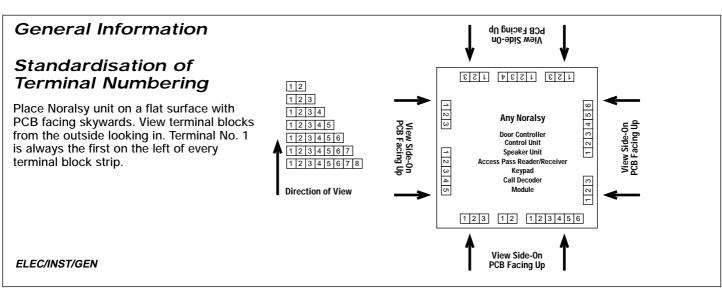
After a beep enter on the keypad:

A rapid series of beeps indicates that you have programmed successfully.

A rapid series of beeps indicates that you have programmed successfully.

Now press B or # to escape from programming.





ADVANCED PROGRAMMING

REMEMBER

Slot Numbers	01 - 13	= Relay no. 1
Slot Numbers	14 - 26	= Relay no. 2

Slot Number 27 = Relay no. 1 & Relay no. 2 simultaneously

Slot Number 28 = Latching Relay no. 3 "ON"
Slot Number 29 = Latching Relay no. 3 "OFF"
Slot Number 30 = Master (Engineer) Code



DELETING USER CODES

As all User Codes are stored in Slots, it is easy to delete a code from the keypad:

Enter the Master Code and wait for the beeps.

After a beep enter on the keypad:

A rapid series of beeps indicates that you have deleted successfully.

Now press B or # to escape from programming.

OVERWRITING / CHANGING USER CODES

You do not have to delete a User Code in order to change it. By programming a new User Code into a Slot that is currently in use, you automatically erase the old User Code.

Enter the Master Code and wait for the beeps.

After a beep enter on the keypad:

The new User Code in Slot 01 is 700028. Whatever was in Slot 01 before has been erased.

Note: You change the Master Code in exactly the same way.

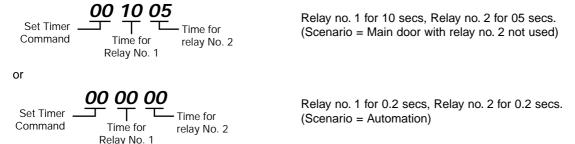
Now press B or # to escape from programming.

SETTING RELAY/LOCK OPEN TIME

Relay operating time (Relay no. 1 & Relay no. 2) can be programmed for 0.2 seconds or, any duration between 01 - 99 seconds.

Enter the Master Code and wait for the beeps.

After a beep enter on the keypad:



Now press B or # to escape from programming.

LATCHING RELAY

The code stored in Slot 28 acts as the "ON" for Latching Relay no. 3.

The code stored in Slot 29 acts as the "OFF" for Latching Relay no. 3.

If you do not store a different code in Slot 29 to that stored in Slot 28, entering the code stored in Slot 28 will act first as "ON" and then as "OFF", then "ON" etc.

EMERGENCY CODE

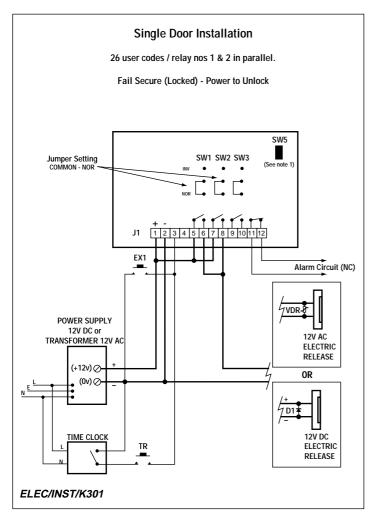
The code stored in Slot 27 operates both Relay no. 1 and Relay no. 2 at the same time.

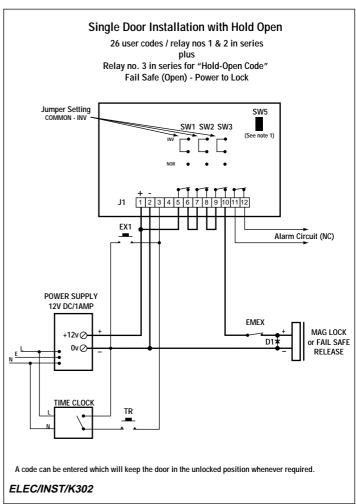
ANTI-TAMPER

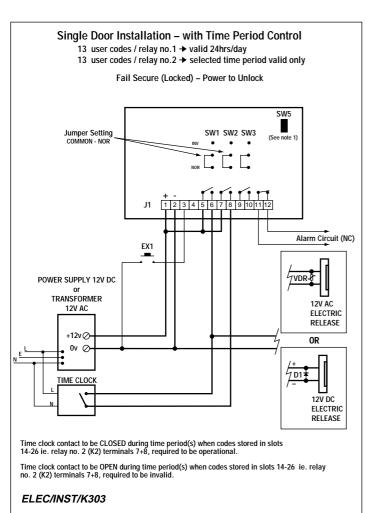
An anti-tamper circuit (terminals 11 + 12 of J1) provides a normally closed contact, once the Portacode™keypad is secured to the wall.

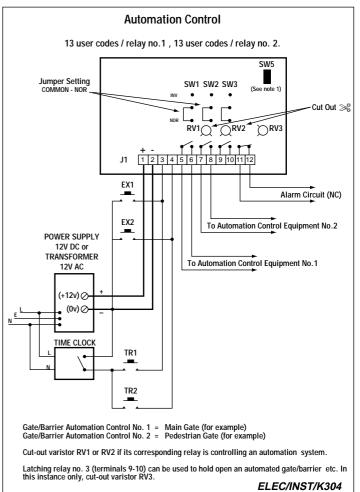
AUTOMATIC TIME-OUT - whenever programming accessed via Master Code

If you do not press B or # to escape from programming, Portacode™will automatically revert to normal mode after 20 seconds.









GENERAL INFORMATION

- 1 Master (Engineer) code
- 26 Keypad User Entry codes maximum for single door
- 2 time programmable relay/lock commands

What can the Portacode™ Keypad be used for?

The Portacode[™] keypad can control doors, gates, barriers, roller shutters, automation systems, perimeter beams, alarms etc.

What is a Master Code?

The Master Code is a code which allows you to enter into programming mode without having to open up the keypad itself. It can be any combination of digits/characters/symbols - minimum 3, maximum 8.

Should I keep a record of the Master Code?

Yes. Without the Master Code, you cannot enter into programming mode.

What happens if I lose or forget the Master Code?

Don't worry! If you have the security tool supplied with the Portacode™ keypad, you can open up the keypad and set a new Master Code. This will automatically overwrite the previous Master Code.

What is a User Code?

A User Code is any combination of digits/characters/symbols minimum 3, maximum 8. Entering this particular combination on the keypad opens the door.

How many User Codes can I have at any one time?

If you are controlling only 1no. door, you can have a maximum of 26no. User Codes at any one time.

If you are controlling 2no. doors, you can have a maximum of 13no. User Codes per door.

Why do I need more than 1no. User Code?

Would you like to have your own personal code which is not affected by changes to other codes? Would you like to give staff a common code which you change every week? Would you like to give a code to certain contractors which you then delete when they leave? There are many ways you can benefit from the multicode feature of PortacodeTM keypads.

What happens if I lose or forget the User Codes programmed into my Portacode™?

Don't worry! Because all User Codes are stored in Slots ie. Slot 01, Slot 02 etc., you can delete or simply overwrite them at will.

	Date	Date	_ Date	Date	Date	Date
Master Code Slot 30						
User Code slot 01						
User Code slot 02						
User Code slot 03						
User Code slot 04						
User Code slot 05	-					
User Code slot 06						
User Code slot 07	7					
User Code slot 07 User Code slot 08						
User Code slot 09	4					
User Code slot 10						
User Code slot 11						
User Code slot 12						
User Code slot 13						
User Code slot 14						
User Code slot 15						
User Code slot 16						
User Code slot 17						
User Code slot 18	4					
User Code slot 19						
User Code slot 20 User Code slot 21	<u> </u>					
User Code slot 21	3					
User Code slot 22						
User Code slot 23						
User Code slot 24						
User Code slot 25						
User Code slot 26						
User Code slot 27 (Relays No.1 & No.2 together)						
User Code slot 28 Latching Relay "ON"					_	
User Code slot 29 Latching Relay "OFF"						