Art. 8800BL Digital codelock module

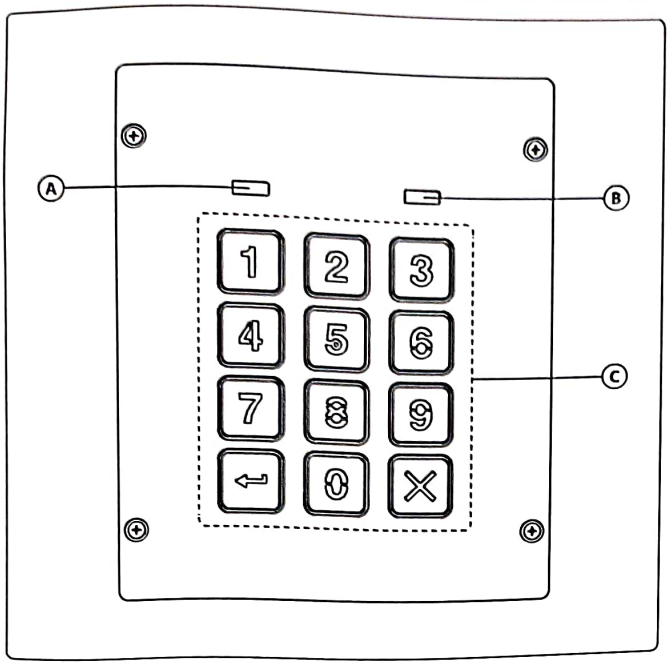


Fig. 1 Front

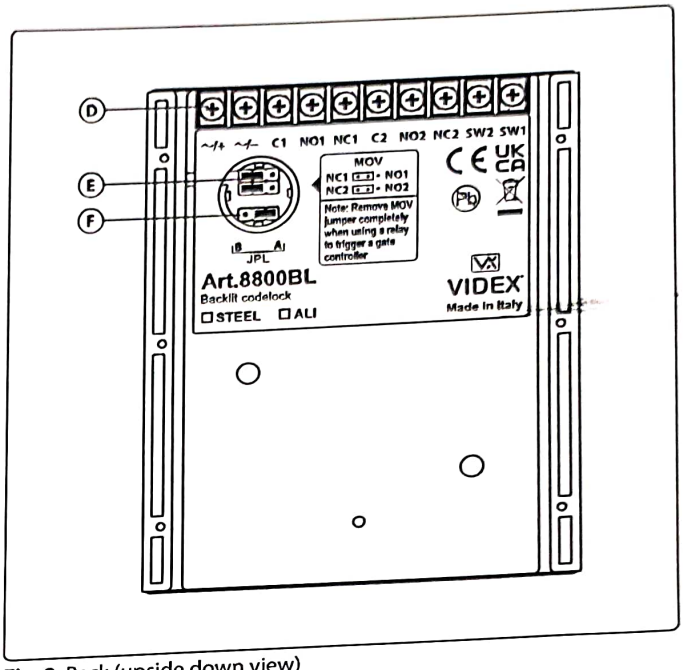


Fig. 2 Back (upside down view)

DESCRIPTION

Access control system with 2 codes and 2 Relay outputs.

- Engineer's code to enter into the "Programming Menu" (from 4 to 8 digits)
- Programming of the activation time of each relay from 1 up to 99 seconds or latching
- Possibility to activate *relay 1 by* shorting terminal **SW1** to **GND** and relay 2 by shorting terminal **SW2** to **GND**. Both relays will operate for the programmed time
- Keypad gives an acoustic (buzzer) signal during the entering of codes and a continuous melody for 4 or more seconds, according to the number of mistakes (self protection)
- Keypad includes blue backlit programmable illumination and 2 LED's to show the following:
  - » Correct relay code (green LED on for 2 seconds)
  - » Red LED to indicate when in the "Programming Menu".

LEGEND

Ⓐ Green LED
Ⓑ Red LED
Ⓒ Backlit keypad
Ⓓ Connection terminals
Ⓔ MOV jumpers
Ⓕ JPL jumper

GENERAL DIRECTIONS FOR INSTALLATION

In order to achieve the best results from the schematics described it is necessary to install only original VIDEX equipment, strictly keeping to the items indicated on each schematic and follow these General Directions for Installation:

- The system must be installed according to national rules in force, in any case the running of cables of any intercom unit must be carried out separately from the mains
- All multipair cables should be compliant to CW1308 specification (0.5mm twisted pair telephone cable)
  - » Cables for speech line and service should have a max resistance of 10Ω
  - » Lock release wires should be doubled up (Lock release wires and power supply wires should have a max resistance of 3Ω)
- The cable sizes above can be used for distances up to 50m. On distances above 50m the cable sizes should be increased to keep the overall resistance of the cable below the RESISTANCES indicated above
- Double check the connections before power up
- Power up the system then check all functions.

LOCK RELEASE BACK EMF PROTECTION

A varistor must be fitted across the terminals on AC lock release **(Fig. 3)** and a diode must be fitted across the terminals on a DC lock release **(Fig. 4)** to suppress back EMF voltages. Connect the components to the lock releases as shown in figures.

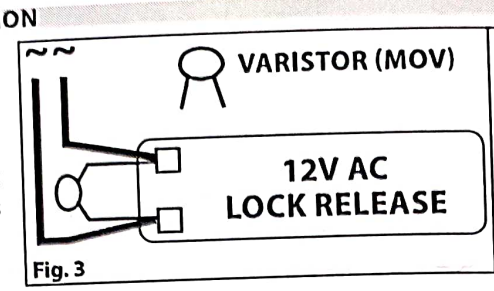


Fig. 3

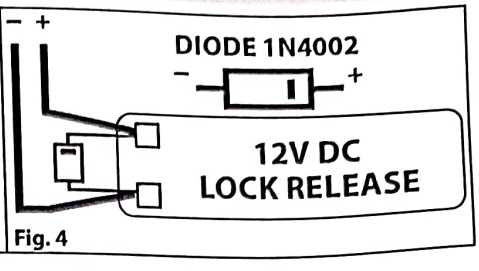


Fig. 4

BUZZER BACK EMF

When using intercoms with buzzer call (Art. 924/926, SMART1/2, 3101/2, 3001/2 and 3021/2) add one 0.1uF (100nF) capacitor between terminals 3 and 6 on the telephone.

BUILT-IN RELAYS – BACK EMF PROTECTION

The Art. 8800BL includes selectable back EMF protection on the relays. The jumpers marked **MOV** (one jumper for each relay) are used to select the protection type. When using a fail secure lock with connections **C** & **NO** the jumper should be in the **NO** position. When using a fail open lock with connections **C** & **NC** the jumper should be in the **NC** position and when using the codelock to trigger a gate controller or another third party controller the jumper should be removed completely (this disables the protection on the relay).

BACK LIGHT ADJUSTMENT JUMPER (JPL)

The jumper **JPL** (**Fig. 2**, Ⓕ) is used to adjust the brightness and determine the operation of the backlit buttons. There are four brightness settings for the backlit buttons and two programming modes (Mode 1 and 2) for the jumper.

The two modes that can be programmed change the functionality of the jumper **JPL**. The table beside indicates the programming mode, the position of the jumper and the operation of the backlit buttons.

	Jumper Position		Back light Operation
Mode 1	**A (default)**	A / B	Back light on low brightness in standby. Full brightness when any buttons are pressed.
	B	A / B	Back light OFF in standby. Full brightness when any buttons are pressed.
Mode 2	**A or B**	A / B or A / B	Back light on full brightness all of the time.
	JPL removed in either Mode	A / B	No back light, the back light is completely disabled.

PROGRAMMING MODE 1 (DEFAULT MODE, JPL = A)

Follow the steps below to set the codelock to Mode 1:

1. Disconnect the power from the Art. 8800BL codelock
2. Short out terminals **–** and **SW2**
3. Press and hold down button **1** [1] and keep it pressed down while the power is switched back ON
4. When power is restored to the codelock wait for the module to emit a single beep and the red status LED (**Fig. 1**, Ⓑ) to flash once
5. Listen for the confirmation tone and wait for the red status LED (**Fig. 1**, Ⓑ) to flash once again
6. Release button **1** [1] and remove the short between terminals **–** and **SW2**
7. Set the jumper **JPL** to the desired position.

PROGRAMMING MODE 2

Follow the steps below to set the codelock to Mode 2:

1. Disconnect the power from the Art. 8800BL codelock
2. Short out terminals **–** and **SW2**
3. Press and hold down button **2** [2] and keep it pressed down while the power is switched back ON
4. When power is restored to the codelock wait for the module to emit a double beep and the red status LED (**Fig. 1**, Ⓑ) to flash once
5. Listen for the confirmation tone and wait for the red status LED (**Fig. 1**, Ⓑ) to flash once again
6. Release button **2** [2] and remove the short between terminals **–** and **SW2**
7. Set the jumper **JPL** to the desired position.

BACK LIGHT AND BUTTON OPERATION

If the back light programming mode is set to Mode 1 (with jumper **JPL** in either the **A** or **B** position) when a button is pressed on the keypad the back light will switch to full brightness for approximately 10 seconds.
After this time the back light will either switch OFF or switch back to low brightness (depending on the jumper position) unless another button has been pressed within the 10 second period in which case the back light will stay on full brightness for a further 10 seconds.
The exception to this is if the back light programming mode is set to Mode 2, **i.e.** the back light will be on full brightness all of the time or if the jumper is removed the back light will be disabled.

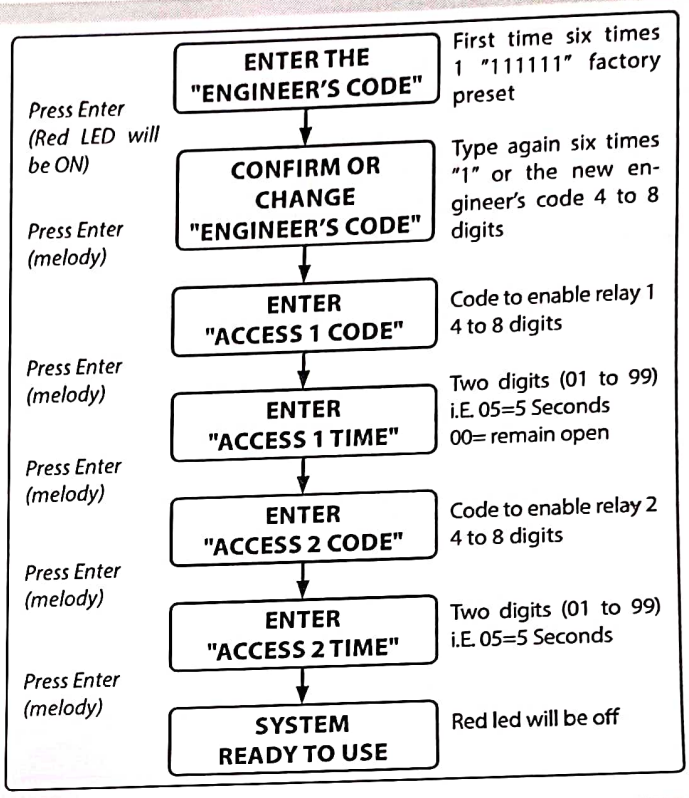
Art. 8800BL Digital codelock module

PROGRAMMING

- Enter **ENGINEER'S CODE**: first time type six times **1** (**111111** factory preset) and press ENTER (The red LED will illuminate)
- Confirm **ENGINEER'S CODE** (typing again the same) or type the new code (4 to 8 digits) then press **ENTER** (Melody). Pressing twice the **ENTER** button without changing the **ENGINEER'S CODE**, will exit from the programming
- Enter the code (4 to 8 digits) to enable **RELAY 1** (ACCESS 1) or re-enter the existing code then press **ENTER** (Melody)
- Enter the **RELAY 1** operation time (2 digits 01 to 99 **I.E.** 05=5 seconds, 00= remain open time) or re-enter the existing time then press **ENTER** (Melody)
- Enter the code (4 to 8 digits) to enable **RELAY 2** (ACCESS 2) or re-enter theexisting code then press **ENTER** (Melody)
- Enter the **RELAY 2** operation time (2 digits 01 to 99 **I.E.** 05=5 seconds, 00=remain open time) or re-enter the existing time then press **ENTER** (Melody)
- The system is ready to use (the red LED will be off).

RETURN SYSTEM TO PRESET ENGINEER'S FACTORY CODE

- Turn off power to code lock
- Keep **ENTER** button pressed while turning the power back on
- Release **ENTER** button
- The engineer's code is now set to **111111** (six times one).



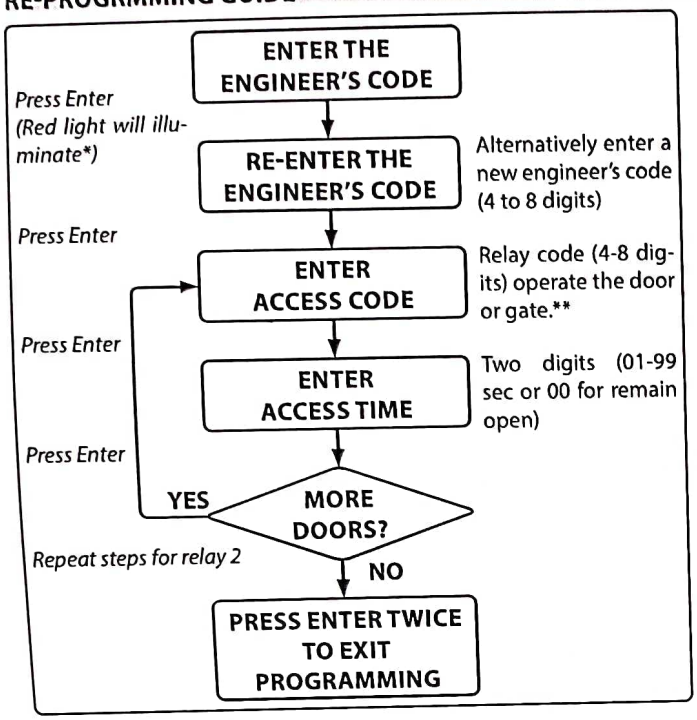
OPERATION

To use the system, type in the programmed code and press **ENTER**, the green LED will illuminate and the relay will operate for the programmed time.To cancel remain open time, type in the same code and press **CLEAR**. If a wrong code is entered, a continuous melody will sound for 4 or more seconds, according to the number of mistakes.

OPERATION NOTES

- To operate relays together, set the same code for each relay
- If a wrong code is entered, the system will lock out for 5 seconds which will increase each time a wrong code is entered. The system will operate only when the correct code is enter.

RE-PROGRMMING GUIDE



Engineer's code	
Relay 1 code	
Relay 2 code	
Relay 1 time	
Relay 2 time	

Notes:

* If the red light does not illuminate, the engineer's code is incorrect. Follow instructions to return system to preset engineer's factory code.

** On the first loop of the flow chart its relay 1 and second loop is relay 2.

CONNECTION TERMINALS SIGNALS

SW1	Relay 1 command signal (active low)	
SW2	Relay 2 command signal (active low)	
NC2	Relay 2 normally closed contact	**Max 24Vac/dc 5A**
NO2	Relay 2 normally open contact	
C2	Relay 2 common contact	
NC1	Relay 1 normally closed contact	
NO1	Relay 1 normally open contact	
C1	Relay 1 common contact	
~/+	12/24Vac/dc power input	
~/-		

TECHNICAL SPECIFICATIONS

Power consumption:	**On AC**		**On DC**
	Standby:	82mA	21.5mA
	Operating:	125mA	35.0mA
Working voltage:	12/24V AC/DC, 2VA		
Working temperature:	-20 +60° C		

CLEANING OF THE PLATE

Use a clean and soft cloth. Use moderate warm water or non-aggressive cleansers.

Do not use:

- abrasive liquids
- chlorine-based liquids
- metal cleaning products
- antioxidant products