PVC high speed door control panel instruction

Model used: VFD-M --- with OPEN HEIGHT SETTING for secondary upper limit position setting

Button introduction

1. Setting/ run lamp:
- Setting lamp: indicates the ignition of each setting mode with blinks of the light for three seconds followed by a steady light.
- Run lamp: indicates, with a steady light, that the door is in motion of going UP (when the door canvas is departed from the lower limit).
2. Open height setting switch: When switch to the right, indicating the setting for a secondary upper limit position is effective.
3. Manual/ Auto switch:
- Manual mode: After the door canvas is commanded to go UP, it will stay in upper limit until receiving a command to go DOWN.
- Auto mode: After the door canvas is commanded to go UP, it will stay in the upper limit for the set holding-duration and, then, go DOWN to the lower limit automatically.
- Automatic operation accessories such as microwave sensors (for smaller doors) or radars (for larger doors), and safety infrared sensors, and other optional accessories are functional for open, stop, and close response to sensing obstacles during both manual and auto modes.
4. UP button: For commanding the door canvas to a raising motion until the upper limit is reached (UP button light and run lamp light would be turned on automatically).
5. STOP button: For commanding the door canvas to stop the ongoing motion (STOP button light would be turned on automatically). The UP and DOWN button must be pressed again to continue the motion to the limit.
6. DOWN button: For commanding the door canvas to a lowering motion until the lower limit is reached (DOWN button light would be turned off and run lamp light would be turned off automatically).

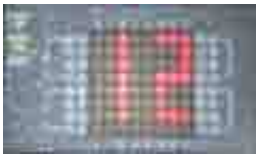
Control panel operation instruction

1. Please double check the circuit connections, the power resource must be 3ψ, 220V AC.
2. Turn on the power switch (NFB) within the control panel, the SETTING/ RUN LAMP light will start blinking indicating that the system is holding and awaiting for manual settings.

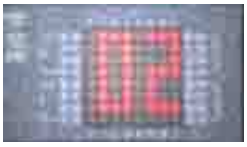
I. Lower limit setting mode

1. Switch to manual mode.
2. Press and hold the STOP and DOWN buttons simultaneously for five seconds, the SETTING/ RUN LAMP light will be turned on and the display screen shows number “12” to indicate that the lower limit setting

mode is initiated. Then let go the buttons in the order of the DOWN button first and STOP button second.



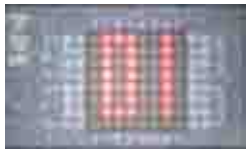
3. Press DOWN button, the door canvas will be lowered in creep speed (10HZ). Then let go DOWN button, or adjust with the UP button, when the canvas bottom has reach to a preferred height for the lower limit.
4. Press and hold the STOP and DOWN buttons simultaneously for five seconds, the SETTING/ RUN LAMP light will be turned off automatically indicating the lower limit setting is completed. Then let go the buttons in the order of the DOWN button first and STOP button second.
5. At this point the setting is not completed and the system will not be operated in normal function. Please go on to the upper limit setting mode.
6. During a normal function, when the door canvas is being lowered to the lower limit, the DOWN button light would be on and the display screen would show number “02”.



II. Upper limit setting mode

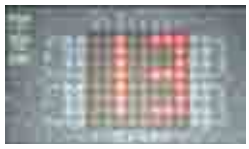
1. Stay in the manual mode.
2. Press and hold the STOP and UP buttons simultaneously for five seconds, the SETTING/ RUN LAMP light will be turned on and the display screen shows number “11” to indicate that the upper limit setting mode is initiated. Then let go the buttons in the order of the UP button first and STOP button second.

3. Press UP button, the door canvas will be lowered in creep speed (10HZ). Then let go UP button, or adjust with the DOWN button, when the canvas bottom has reach to a preferred height for the upper limit.
4. Press and hold the STOP and UP buttons simultaneously for five seconds, the SETTING/ RUN LAMP light will be turned off automatically indicating the upper limit setting is completed. Then let go the buttons in the order of the UP button first and STOP button second.
5. At this point the UP and the DOWN settings are completed for automatic mode.
6. Should the UP/DOWN functions cannot be operated normally in the automatic mode, please repeat the upper and lower limit setting process. Should the problem continues after the repeated settings, turn the power switch off for approximately 15 seconds before turn it on again, and then conduct the upper and lower limit setting process.
7. During a normal function, when the door canvas is being lowered to the lower limit, the UP button light would be on and the display screen would show number “01”.



III. Open height (secondary upper limit) setting mode

1. Switch to manual mode.
2. Switch the OPEN HEIGHT SETTING switch to the right,
3. Press and hold the STOP and UP buttons simultaneously for five seconds, the SETTING/ RUN LAMP light will be turned on and the display screen shows number “13” to indicate that the open height setting mode is initiated. Then let go the buttons in the order of the UP button first and STOP button second.



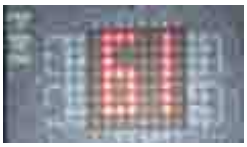
4. Press UP button, the door canvas will be lowered in creep speed (10HZ). Then let go UP button, or adjust with the DOWN button, when the canvas bottom has reach to a preferred height for the open height.
5. Press and hold the STOP and UP buttons simultaneously for five seconds, the SETTING/ RUN LAMP light will be turned off automatically indicating the open height setting is completed. Then let go the buttons in the order of the UP button first and STOP button second.
6. Should the UP/DOWN functions cannot be operated

normally in the automatic mode, please repeat the upper and lower limit setting process. Should the problem continues after the repeated settings, turn the power switch off for approximately 15 seconds before turn it on again, and then conduct the upper and lower limit setting process.

7. If the OPEN HEIGHT SETTING switch is switched to the left, the function would be cancelled.

IV. Upper limit hold-duration setting mode

1. Switch to automatic mode.
2. Press and hold the STOP and UP buttons simultaneously for five seconds, the SETTING/ RUN LAMP light will be turned on and the display screen shows number “61” to indicate that the upper limit hold-duration setting mode is initiated. Then let go the buttons in the order of the UP button first and STOP button second.

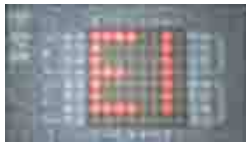


3. Adjust the two-digit number on the display screen by pressing and holding the UP button, and let go the button when the preferred number is reached to set the upper limit hold-duration. Each increase of the first digit from the left is an increase of a second, and each increase of the second digit from the left is an increase of one tenth of a second (i.e. number “62” indicates a 6.2 seconds holding duration). The preset holding duration is six seconds.
4. Should the holding duration is to be changed at this point, press UP to readjust the duration.
5. Press and hold the STOP and UP buttons simultaneously for five seconds, the SETTING/ RUN LAMP light will be turned off automatically indicating the upper limit hold-duration setting is completed. Then let go the buttons in the order of the UP button first and STOP button second.
6. At this point the UP and the DOWN settings are completed for automatic mode.
7. Should the UP/DOWN functions cannot be operated normally in the automatic mode, please repeat the upper and lower limit setting process. Should the problem continues after the repeated settings, turn the power switch off for approximately 15 seconds before turn it on again, and then conduct the upper and lower limit setting process.

V. System error signals

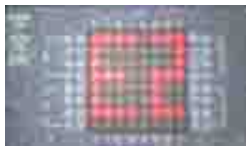
1. “**E1**” on the display screen indicates the system error, circuit dislocation, or connection error for signal A and B of the **rotary encoder**. The error is coped with one or more of the following methods:

- Check the dislocation in the circuit.
- Check if signal A and signal B wiring is connected in the opposite positions.
- Replace a new rotary encoder.



2. “**E2**” on the display screen indicates the system error and/or the malposition of the **safety infrared sensor**. The error is coped with one or more of the following methods:

- Check the dislocation in the circuit.
- Check the position of the safety infrared sensor. Readjust the position by unfasten and fasten the mounting bolts.
- Replace a new set of safety infrared sensor.



3. “**E3**” on the display screen indicates the system error of the **microwave sensors or radars**. The error is coped with one or more of the following methods:

- Check the dislocation in the circuit.
- Replace a new set of microwave sensors or radars.