
User manual - Series-500 – Limit SwitchBox

1 Safety instructions

For a safe installation of a switchbox in hazardous area the following must be observed. The module must only be installed by qualified personnel who are familiar with the national and international laws, directives, and standards that apply to this area and all instructions in this manual.

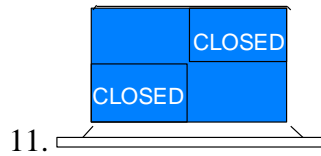
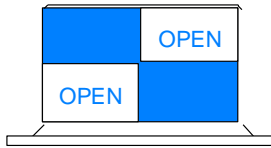
The Switchbox can be only connected to certified intrinsically safe apparatus or according to § 5.4 EN 50020 standard. These combinations must be compatible as regards the electrical parameters.

This EC Type examination certification relates only to the design and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC.

2 Mounting and installation:

Important: If the Val Controls switchbox is already mounted on an actuator and valve, please follow instructions from point 4.

1. Attach the proper mounting bracket and adapter to the actuator with the hardware provided
2. Operate the actuator to full closed position
3. Attach the Val Controls switchbox to the mounting bracket and adapter on the actuator
4. If the Switchbox is fitted with a beacon: Remove the beacon
5. Loose the four screws in the switchbox-lid and remove the lid
6. Connect the cables according to the wiring diagram
7. To set switches, lift bottom cam and turn until the close switch is activated and then release. The spring will push the cam into the splined shaft. Operate the actuator to the opposite extreme, push down on the top cam and turn until the open switch is activated and then release. The spring will push the cam into the splined shaft
8. Operate actuator from one extreme to the other several times to check switch operation
9. Mount the switchbox-lid. Confirm that you have noted the final position of the valve (full-open or full close). Make sure that the screws on the lid is correct mounted in the thread
10. If the Switchbox is fitted with a beacon: Mount the beacon. Confirm that the beacon coincides with the position of the valve.



12. The unit is now ready for automatic operation.

13. If any assistance is required, please feel free to call Val Controls A/S.