FCI FLT93 Flow/Level Switches

Installation Tips

Verify Sensing Element Flow Direction and Placement Orientation (Flow Application)

1. For flow detection, the sensing element surface marked with direction arrows should be oriented parallel to the process flow. The flow can be from either direction. See the appropriate figure in Appendix A for the flow arrow marking.
2. Mount the sensing element at least 20 diameters downstream and 10 diameters upstream from any bends or interference in the process pipe or duct to achieve the greatest accuracy.
3. For liquid flow service, the sensing element should be located in the process pipe so that the thermowells are always completely wet.
4. When mounted in a tee or section of pipe larger than the normal process pipe, position in a vertical run of pipe with flow upward. This will prevent air or gas bubbles from becoming trapped at the sensor assembly.
5. Vertical positioning with flow downward is only recommended for higher flow rate applications (consult FCI).

Verify Sensing Element Flow Direction and Placement Orientation (Level Application)

1 If the sensing element is side-mounted on the process vessel, then the surface marked with direction arrows should be vertically oriented.
2 If the sensing element is top- or bottom-mounted on the process vessel, the orientation of the surface marked with direction arrows does not matter.

Calibration

Refer to instruction manual for jumper setting, and calibration adjustment.

Check Serial Numbers

Verify that the serial number of the sensing element and the control circuit are the same number. The sensing element and the control circuit are a matched set and cannot be operated independently of each other. The exception to this is if a removal and replacement have been done for repair purposes. All calibrations and jumpers must have been done and set.

Check Input Power

Verify that the correct power source is turned on and connected. Verify that the power jumpers are correct for the application. See Chapter 3 for the correct positions.

Check the Instrument Installation

Review the information on instrument installation in Chapter 2 to verify correct mechanical and electrical installation.