

SPECIFICATIONS

Step One

Sensor Input:	LC05: 1-6 sensors LC06: 1-3 sensors
Terminal strip:	LC05: 12 pole socket LC06: 6 pole socket
Max. current capacity:	26 amp
Max. voltage:	380 V.
Wire Gauge:	22-14 AWG Cu (copper)
Enclosure rating:	NEMA 4X (IP65)
Enclosure material:	Polypropylene, (U.L. 94 VO)
Enclosure rotation:	300° swivel base
Temperature range:	F: -40° to 158° C: -40° to 70°
Conduit connection:	1/2" NPT

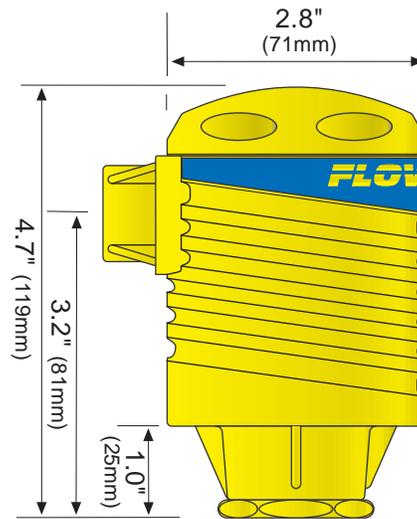
LC06 Terminal Strip



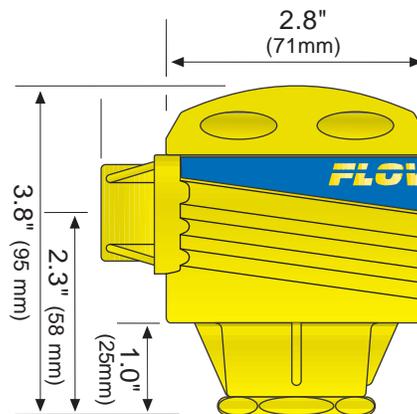
LC06 Terminal Strip



LC05 Dimensions



LC06 Dimensions



SAFETY PRECAUTIONS

Step Two

About this Manual:

PLEASE READ THE ENTIRE MANUAL PRIOR TO INSTALLING OR USING THIS PRODUCT. This manual includes information on the Compact Junction Boxes from Flowline: LC05-1001, LC05-1051, LC06-1001 and LC06-1051. Please refer to the part number located on the sensor label to verify the exact model which you have purchased. Many aspects of installation and use are similar between the models.

User's Responsibility for Safety:

Flowline manufactures several models of controller, with different mounting and switching configurations. It is the user's responsibility to determine if a compact junction box is appropriate for the application, install it properly, perform tests of the installed system, and maintain all components.

Electrical Shock Hazard:

When the cap of the housing is removed, it may be possible to contact components that carry high voltage, causing serious injury or death. All power to the circuits in the terminal strip should be turned OFF prior to working on the installation. If it is necessary to make adjustments during powered operation, use extreme caution and use only insulated tools. Making adjustments to powered systems is not recommended. Wiring should be performed by qualified personnel in accordance with all applicable national, state, and local electrical codes.

Install In a Dry Location:

While the compact junction box is liquid-resistant when installed properly, it is not designed to be immersed. It should be mounted in such a way that it does not normally come into contact with fluid. Its housing is made out of PP (polypropylene). Refer to an industry reference such as the Compass Corrosion Guide to ensure that compounds that may splash onto the housing will not damage it. Such damage is not covered by the warranty.

Application

The LC05-1001 junction box is commonly used for the local termination of multiple level switches installed on Smart Trak. The LC06-1001 junction box is commonly used for the local termination of a single level or flow switch. Combine these junction boxes with any switch or fitting assembly to complete your compact switch.

INTRODUCTION

Step Three

Make a Fail-Safe System:

Design a fail-safe system that accommodates the possibility of relay or power failure. If power is cut off to the controller, it will de-energize the relay. Make sure that the de-energized state of the relay is the safe state in your process. For example, if controller power is lost, a pump filling a tank will turn off if it is connected to the Normally Open side of the relay.

 All power to the system must be off before installing the housing.

 **IMPORTANT:** Do not strip more than .25" of insulation from any wire that will be connected to the terminal strip. Longer un-insulated wire may contact the terminal strip panel, causing a short circuit leading to system failure.

 All wiring between a controller and sensors should be in conduit. The power entrance of the terminal strip housing is a standard 1/2" NPT female fitting that will attach to standard electrical conduit, either plastic or metal, as specified by local codes. Keep in mind that the housing may have to be unscrewed from the sensor for periodic cleaning of the sensor. For this reason the use of flexible conduit, providing enough slack for easy access, is recommended.

 Use caution when installing the conduit. Excessive tightening may break the fitting. Such damage is not covered by the warranty.

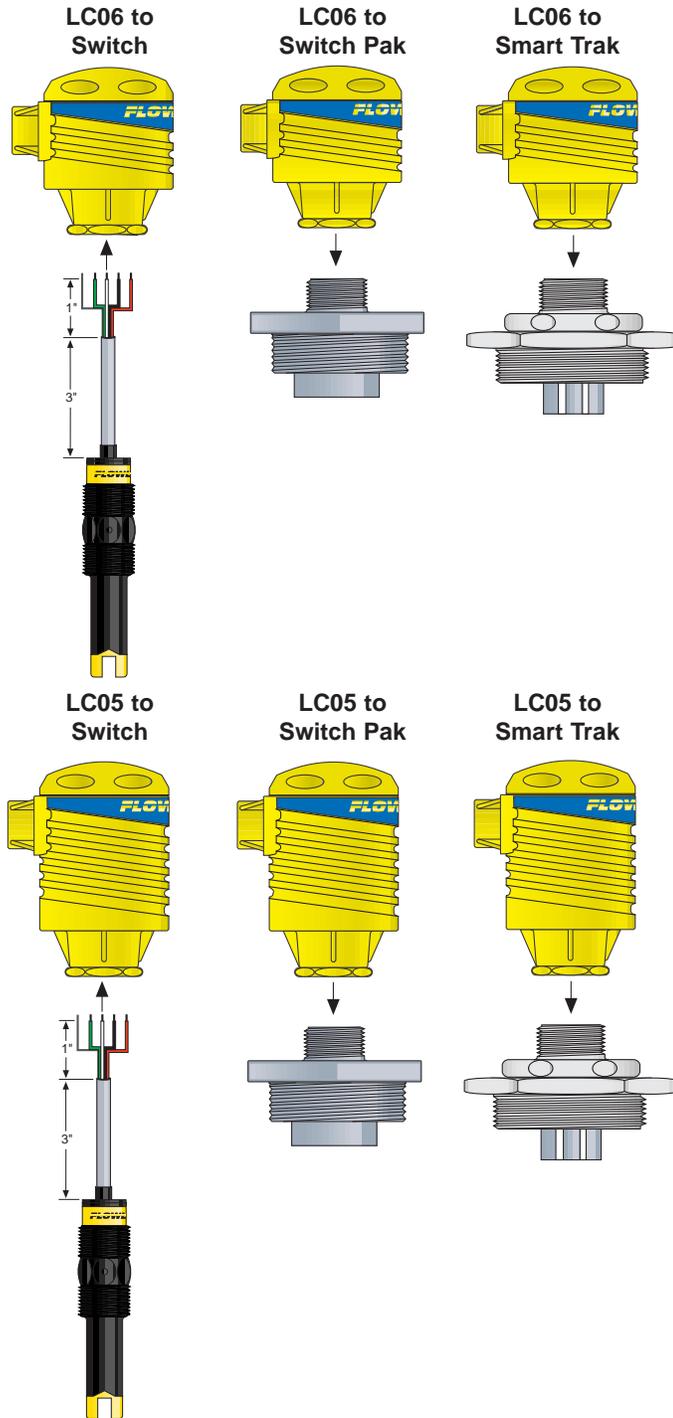
 In some cases, additional user-provided components may need to be attached to the terminals. If so, make sure that both wires or components entering the terminal are secure after the screws are tightened.

INSTALLATION

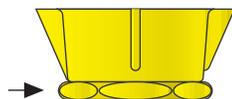
Step Four

3/4" NPT Mounting Thread

Installation of the compact relay controller takes advantage of the 3/4" NPT thread located on its base. This makes the controller fully compatible with any of Flowline's level switches or Smart Trak™ or Switch Pak™ mounting systems.



Always tighten the controller from the wrench flat located on the swivel base. Never tighten from the body of the controller.



Step Five