

High Level Sensor: A sensor whose function is to indicate a “high” part level within the feeding system and signals the vibratory feeder bowl to shut off temporarily to conserve power and prevent jams due to part interference.

Equipment in this example:

- Keyence FS-V31CP Amplifier
- Keyence OP-73880 Fiber Optic Cable (Sensor)
- Rodix FC-200 Series Vibratory Feeder Controller
- Turk PKG-4M

Tools Required:

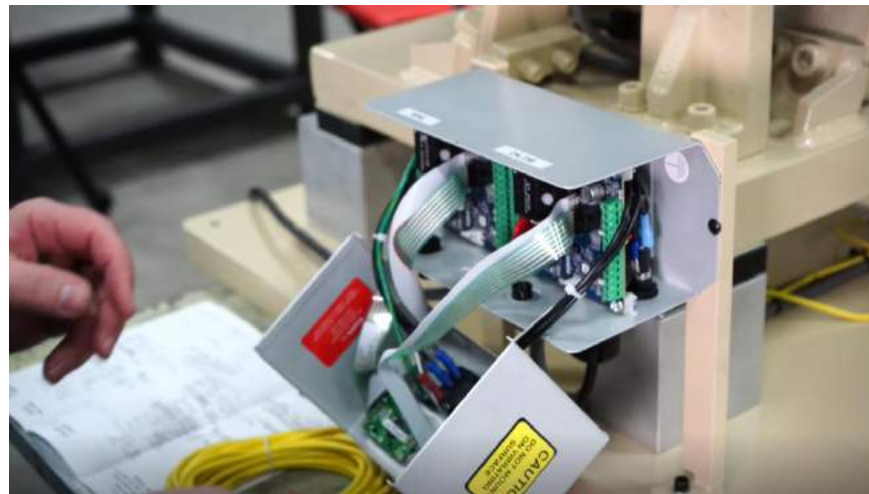
- Flathead Screwdriver
- Precision Flathead Screwdriver
- Adjustable Wrench
- Wiring diagram for controller
- Appropriate cable for sensor/controller combination
- Wire Cutters (optional)
- Wire Strippers (optional)

Procedure

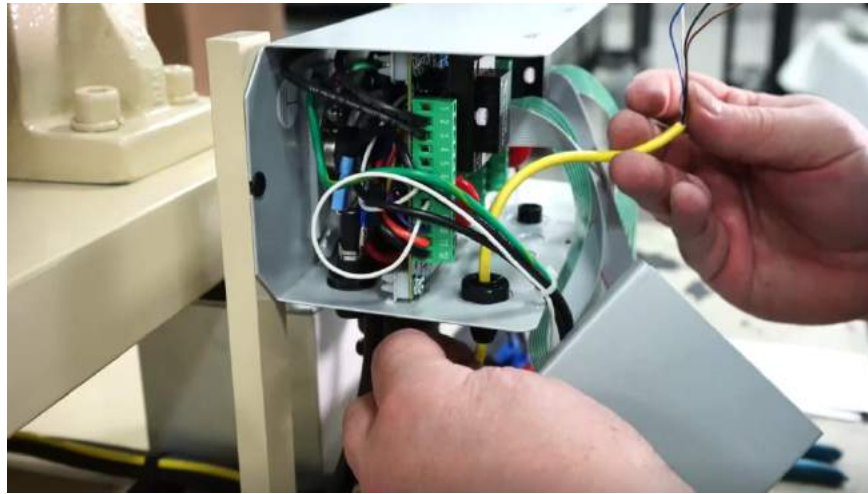
1. Ensure all power to the system is off
2. Remove the faceplate
 - a. Loosen and remove the screws on the top and bottom of the faceplate and set aside. Depending ease of access to the screws, this can be done with either the adjustable wrench or flathead screwdriver.



- b. Gently slide the faceplate out from the back side and move it down and out of the way.

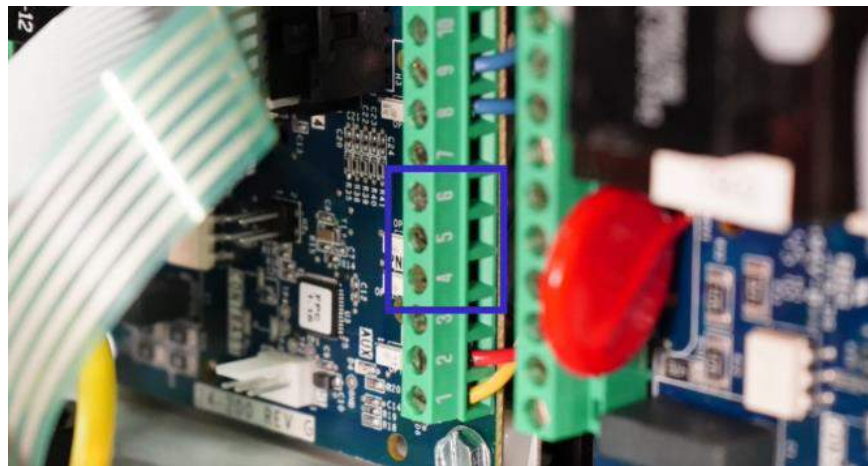


3. Run the cable into the enclosure
 - a. Loosen the cord grip and nut on the bottom side of the controller.
 - b. Feed the stripped end of the cable up through bottom of the controller through the nut and grip and pull some extra slack so it can easily reach the board used for the vibratory feeder without harshly bending the cable.



4. Make wire connections

- a. Always reference wiring diagrams and instructions included with the controller.
For this example, we will use pins 4, 5, and, 6.



- b. Ensure wire bolts on the board are loose enough to insert the wires, and make sure wire ends are stripped and prepared to make connections.
- c. Insert the blue wire into pin 4, black into pin 5, brown into pin 6, tightening each wire bolt after each installation. Leave the white wire loose, as it is not needed.



- d. Ensure each wire is secured.
5. Install faceplate
 - a. Align faceplate with the edges of the controller, tucking in all internal wires, taking care to ensure no wires are pinched or damaged.
 - b. Install screws on top and bottom of controller to secure the faceplate.
6. Connect fiber optic cable to amplifier
 - a. Locate the other end of the cable with the quick-connect adapter and align the holes with the pins on the amplifier.





- b. Insert the wire and tighten the quick-connect cable to secure it.
7. Turn on the system to test for proper operation. Further adjustment of controller settings may be necessary from optimal operation, which will be covered in another module.



Module Presented by:



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