

PNEG-1493

Installation and Operation Instructions for APCD-137 (Chain Disk Tube Mounted Proximity Switch for APCD-108-220 Control)

1. This Sensor is used to shut off Chain Disk drive unit when all feeders and feed loop are full. It is used in conjunction with the APCD-108-220 control.
2. Sensor must be wired to both relays inside 4" x 6" enclosure according to wiring diagram included with APCD-137 package. The four conductor cord which comes out of enclosure must be wired to Chain Disk control APCD-108-220 referred to above, according to this same wiring diagram.
3. Adjust "**Feed Sensor Bypass**" time from inside enclosure APCD-137. The upper relay with the series of "On/Off" dip switches, corresponds to the bypass time in seconds. Turn on only the 256 second dip switch. All other dip switches should be off.
4. Locate sensor and bracket on a clear section of Chain Disk tube anywhere between the last feeder in the loop and the fill hopper.
5. Position sensor and bracket around Chain Disk tube at a horizontal orientation as shown in **Figures 1 and 2** below.
6. Tighten both hose clamps to secure bracket to Chain Disk tube.
7. Adjust sensor body using mounting nuts, until end of sensor is touching outside of Chain Disk tube as shown in **Figure 1** below.
8. Adjust sensitivity of sensor with Chain Disk running but no feed in line. Observe thru clear section of Chain disk tube at sensor, to verify that there is no feed in line.
9. Turn sensitivity screw on side of sensor counterclockwise until indicator light on side of sensor comes on continuously (no flashing).
10. Using end of index finger, bring close to end of sensor next to tube. Measure distance from finger to end of sensor which first makes indicator light flash or go out. Continue to turn sensitivity screw counterclockwise until this measured distance is $\frac{1}{4}$ inch. This $\frac{1}{4}$ inch sensing distance corresponds to the proper sensitivity setting which most closely matches that of feed in the line.

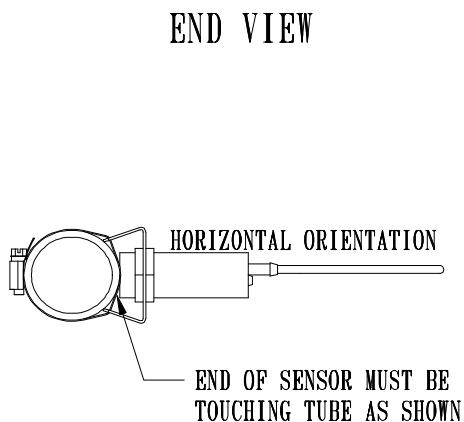


Figure 1

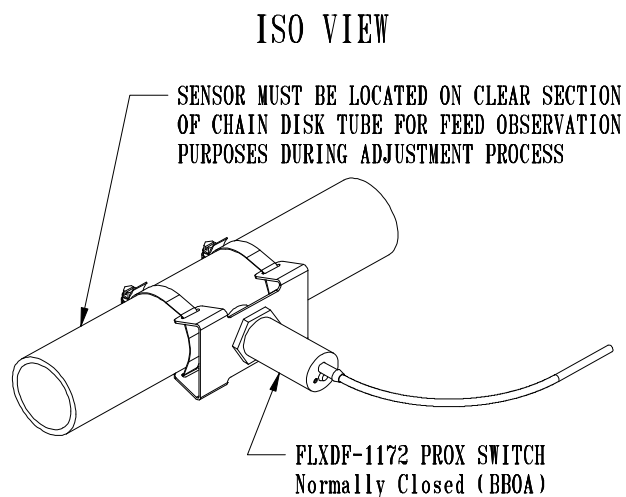


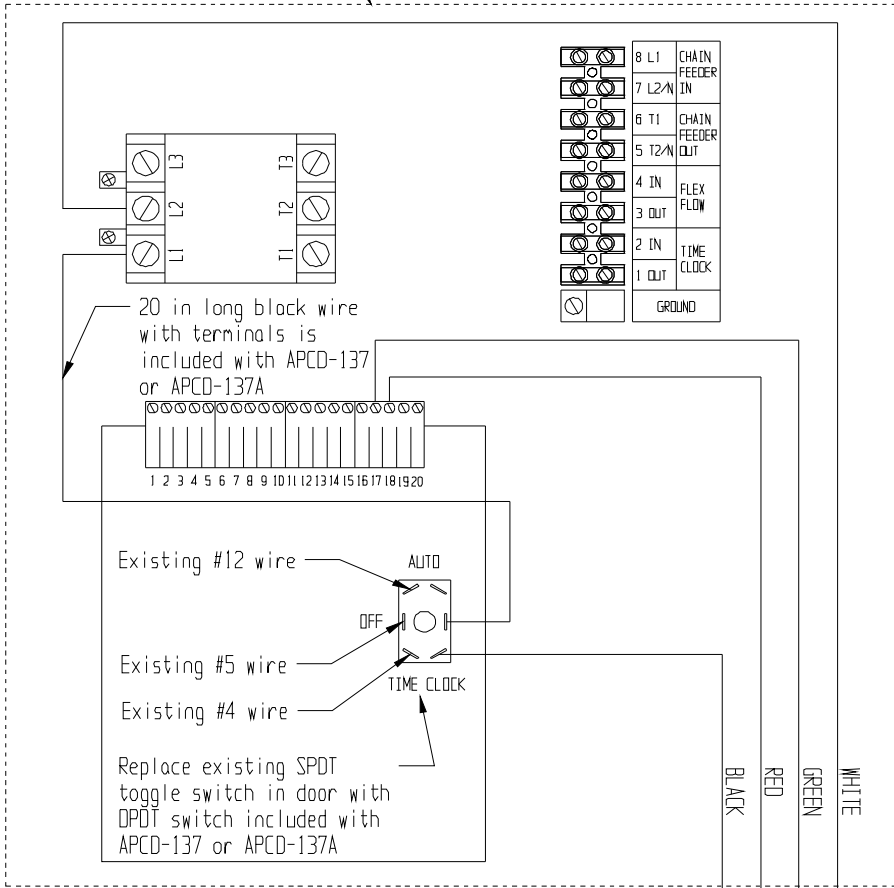
Figure 2

Wiring Diagram for Chain Disk Feed System

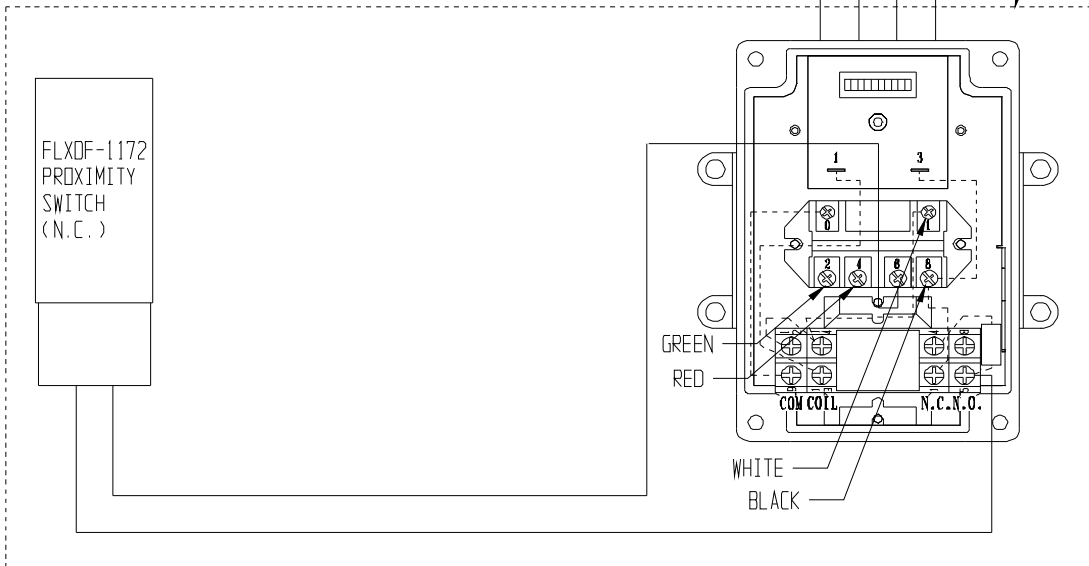
Using Tube Mounted Prox Switch to Control Chain Disk - Manual Start

(NOTE: To Re-Start Chain Disk, Move Toggle Switch to "OFF", then back to "AUTO".)

APCD-108-220 (220V) OR
 APCD-108-110 (110V) OR
 APCD-108-3PH (3 PHASE)
 CHAIN DISK CONTROL UNIT

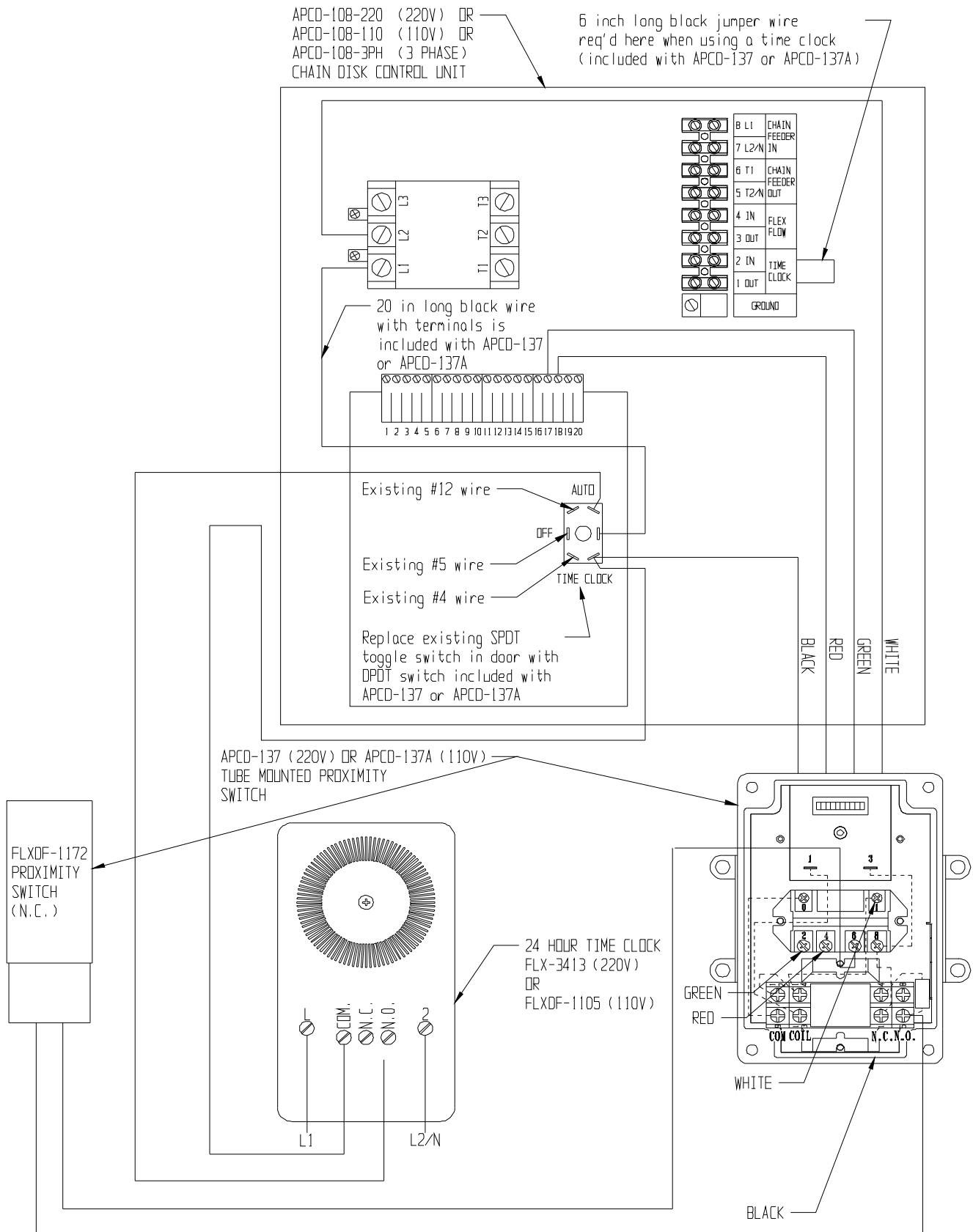


APCD-137
 TUBE MOUNTED
 PROXIMITY SWITCH



Wiring Diagram for Chain Disk Feed System

Using Tube Mounted Prox Switch and 24 Hr Pin Type Time Clock to Control Chain Disk



Wiring Diagram for Chain Disk Feed System

Using Tube Mounted Prox Switch and 24 Hr Time Clock to Control Chain Disk

