Proximity Sensor
750418, 750438
with Tube Mount Assembly
780350



Quick Sheet
990011

Installation

1. Place the Proximity Sensor BASE 780055 through the back side of the Mounting BRACKET 780048 and secure together using (4) 780275 #10-24 Hex Bolts, (4) 012687 #10 SS Medium Split Lockwashers, and (4) 012686 #10-24 SS Machine Screw Nuts. Bolt heads should be on the *inside* of the BASE and washers and nuts to the *outside,* as shown in Figure 1.
2. Slide the 780122 Hose Clamps through each of the (4) slots of the 780048 Proximity Sensor Mounting BRACKET for attaching a CLEAR section of PVC tubing, as shown in Figure 2. DO NOT TIGHTEN AT THIS TIME. Position the proximity switch after the last drop tube and before the Chain Disk Feed System drive unit, as shown in Figure 3.

Figure 1

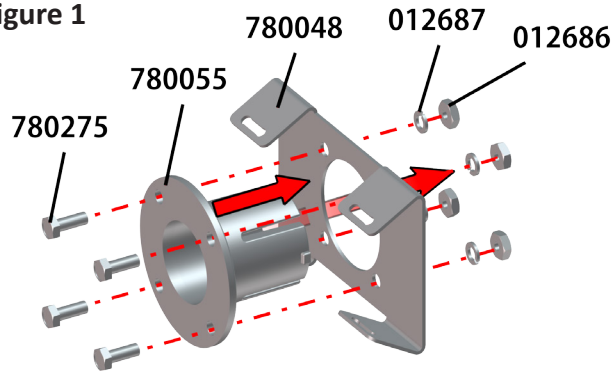


Figure 2

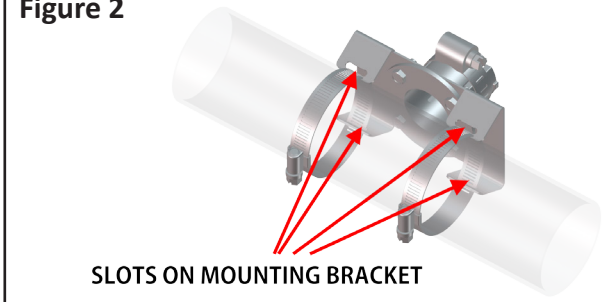
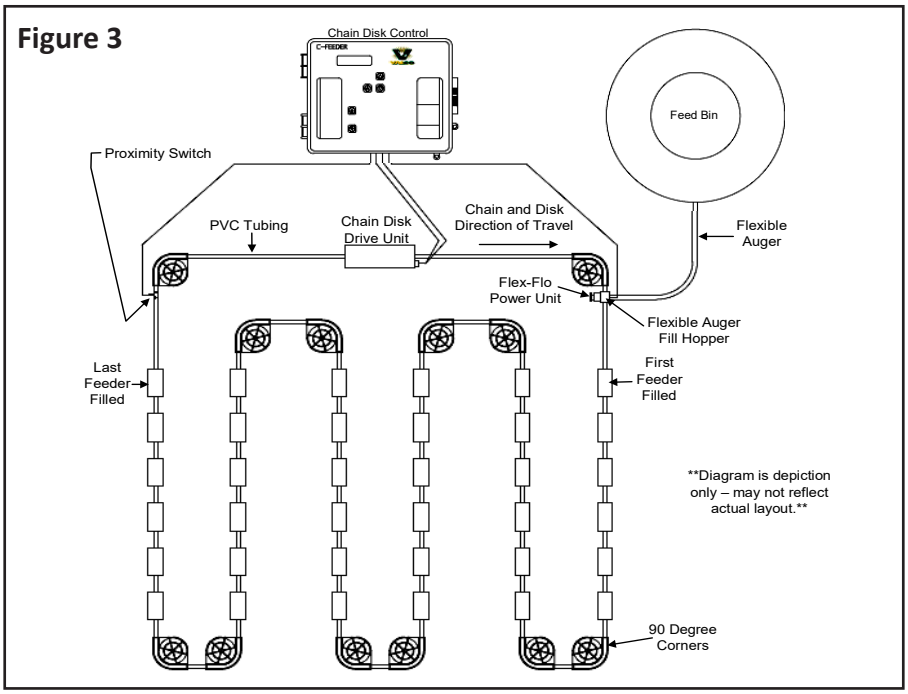


Figure 3



Installation - continued

3. Adjust the mounting bracket so the proximity sensor will sit at a 45 degree angle below horizontal, as shown in Figure 4 and tighten the 780122 2-1/2” Hose Clamps.



4. Place the 730282 1-1/2” hose clamp over the top of the proximity sensor base, as shown in Figure 4 to the right and do not tighten until you have inserted the proximity sensor).
5. Position the Proximity Sensor inside the Proximity Sensor BASE making sure the Proximity Sensor is *touching* the clear PVC tube, as shown in Figure 5.
6. Tighten the 1-1/2” hose clamp over the proximity sensor and proximity sensor base.
7. Attach the Proximity Sensor wire to the Feed Control as instructed in the Chain Disk Installation and Operation Manual.

Figure 4

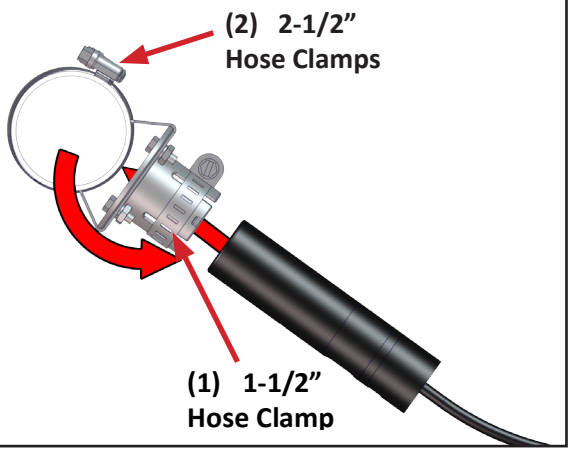
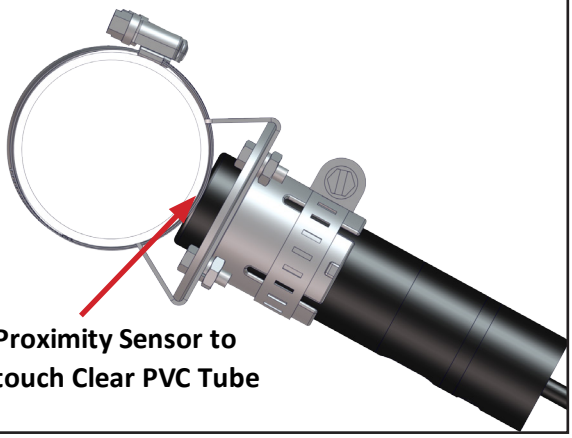


Figure 5

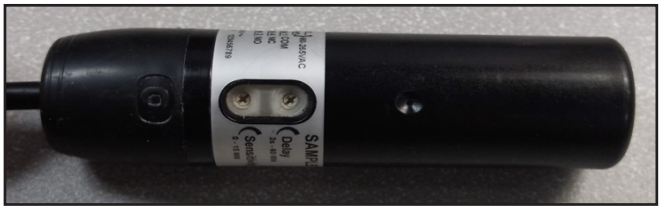


Setting the Time Delay

1. Orient the Prox Sensor, as shown in Figure 6.
2. Zero the prox sensor by turning the DELAY Trimmer (right hand trimmer) COUNTERCLOCKWISE. This should be done already but it pays to double check. When the time delay is zeroed, you will not be able to turn the prox sensor counterclockwise anymore.
3. Use Figure 7 on the next page as a guide to set the prox sensor’s time delay to the desired time.

WARNING!
ONLY USE THE SMALL SCREWDRIVER PROVIDED TO ADJUST THE TIME DELAY AND SENSITIVITY TRIMMERS!

Figure 6

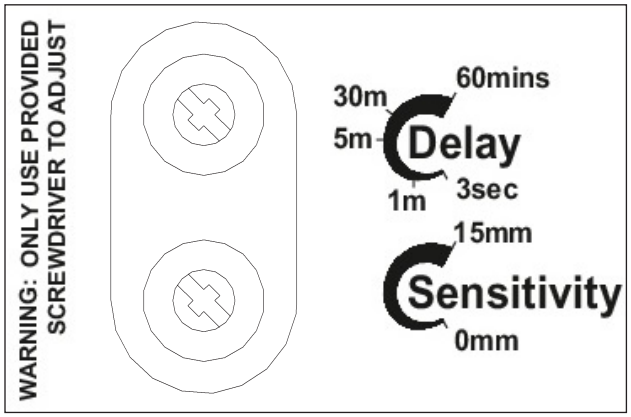


Sample Time Delay

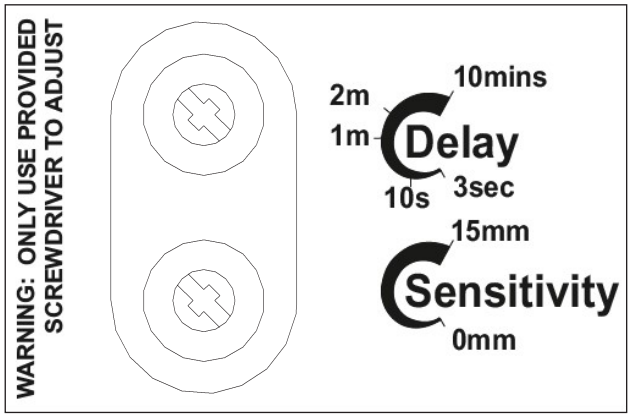
Time Delay Charts

Figure 7

750418



750438



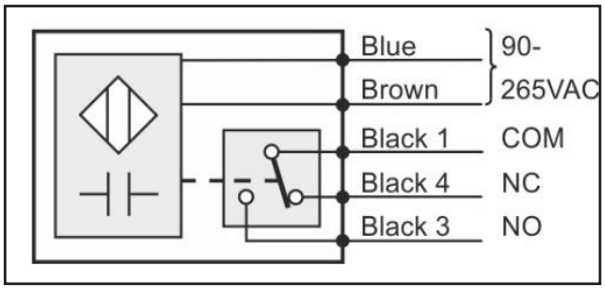
Sensor Information - Wiring

Supply voltage is connected to the Blue and Brown Wire.

To STOP the chain disk drive by activating the sensor: Use the Black Wires 1 and 3.

Figure 8 shows the wiring diagram for both sensors (750418 & 750438). This diagram is also included on each sensor's label.

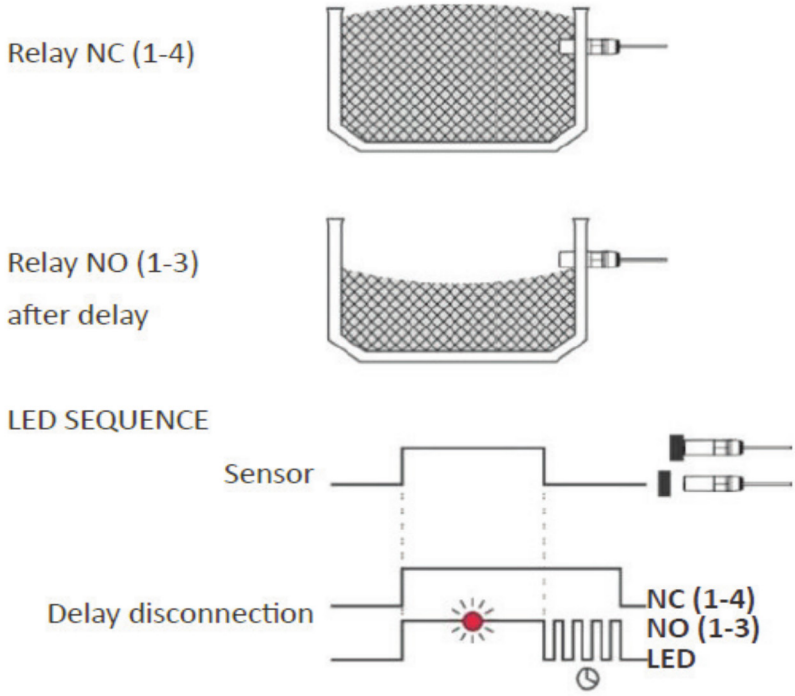
Figure 8



SENSOR SPECIFICATIONS	750418	750438
Supply Voltage:	90 – 265 V AC	90 – 265 V AC
Frequency:	47-63 Hz	47-63 Hz
Relay Switch Max Voltage:	250 VAC	250 VAC
Relay Max Inductive Load:	2A	2A
Temperature:	-4 °F – 158 °F, -20 °C – 70 °C	-4 °F – 158 °F, -20 °C – 70 °C
Cable Length:	6.6 ft. (2m)	6.6 ft. (2m)
Time Delay:	Adjustable, 3s – 60 min	Adjustable, 3s – 10 min
Sensitivity:	Adjustable, 0 – 0.6 in. (0 – 15mm)	Adjustable, 0 – 0.6 in. (0 – 15mm)

The **Red LED** *indicates the status of the sensor.*
Figure 9 shows an example of the LED sequence for this sensor.

Figure 9



PART #	DESCRIPTION	QTY
	780350	
012686	#10-24 SS MACHINE SCREW NUT	4
012687	#10 SS MEDIUM SPLIT LOCKWASHER	4
730282	SS HOSE CLAMP, 1-1/2"	1
750418	PROX SENSOR, DOL 44R-33, 90-265V, 3 SEC - 60 MIN DELAY, 3 SEC PRE-SET	1
750438	PROX SENSOR, DOL 44R-33, 90-265V, 3 SEC - 10 MIN DELAY, 3 SEC PRE-SET	
780048	PROX SENSOR MOUNTING BRACKET	1
780055	PROX SENSOR BASE W/HOLE	1
780122	SS TUBE CLAMP, 1-13/16" - 2-3/4"	2
780275	#10-24 X 1/2" SS HEX BOLT	4

