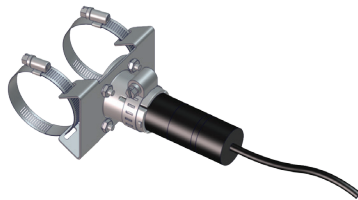




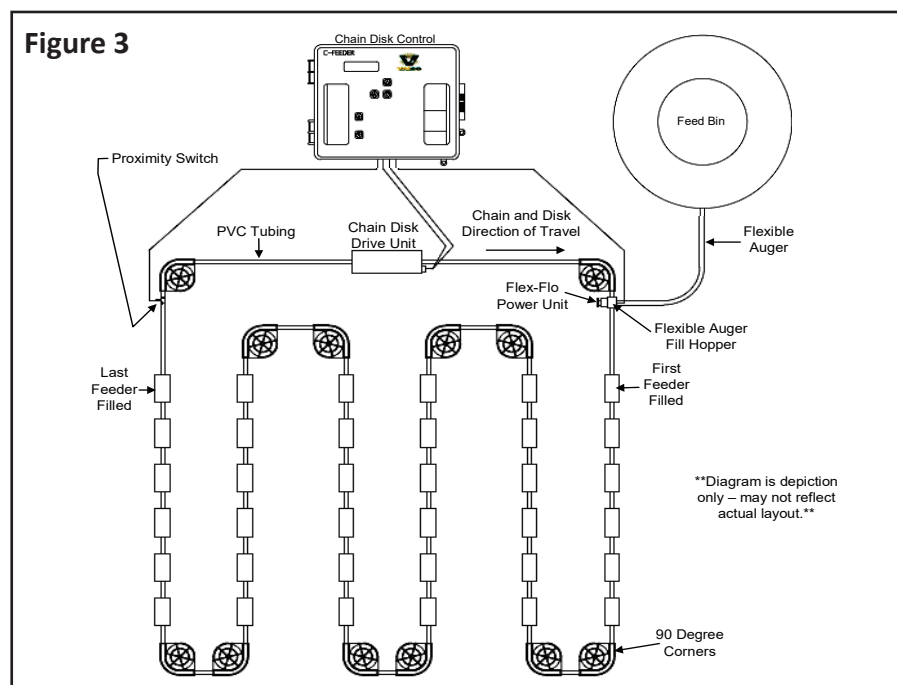
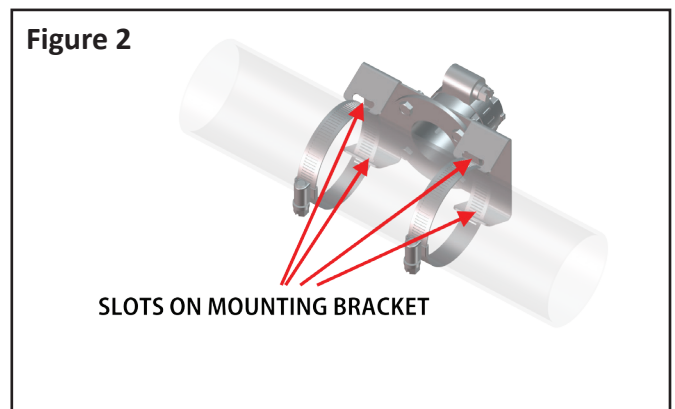
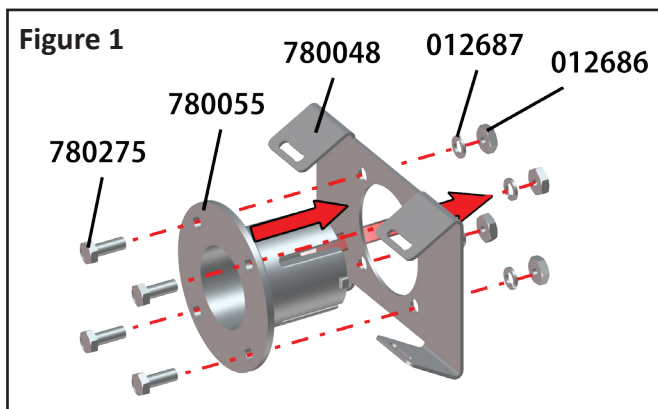
# Proximity Sensor 750418 with Tube Mount Assembly 780350



## Quick Sheet Instructions

### Installation

1. Place the Proximity Sensor BASE 780055 through the back side of the Mounting BRACKET 780048 and secure together using the 780275 #10-24 Hex Bolts (4), 012687 #10 SS Medium Split Lockwasher and 012686 #10-24 SS Machine Screw Nut. *Heads should be on the inside of the BASE and washer/nut to the outside 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, *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 shown in Figure 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.



- 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*.
- 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 to the right*.
- Tighten the 1-1/2" hose clamp over the proximity sensor and proximity sensor base.
- Attach the Proximity Sensor wire to the Feed Control as instructed in the Chain Disk Installation and Operation Manual.

## Setting the Time Delay

- Orient the Prox Sensor as shown in Figure 6.
- 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. The trimmer orientation should match what is shown in Figure 7.
- Use the chart on next page as a guide to set the prox sensor's time delay to the desired time. The chart applies to the prox sensor if the prox sensor is oriented as shown in Step 1.



If you use the longer length of the trimmer head as a guide you could think of the trimmer as a clock. If the longer length of the trimmer head is used as the hour hand, the zero point of the sensor is pointing at 8 o'clock and the maximum point is at 4 o'clock. This is shown in Figure 8 on the next page.

*See sample Time Delay chart on next page*

Figure 4

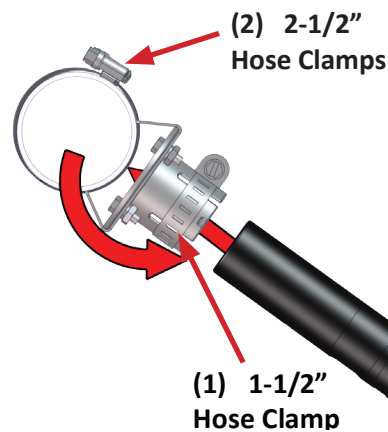
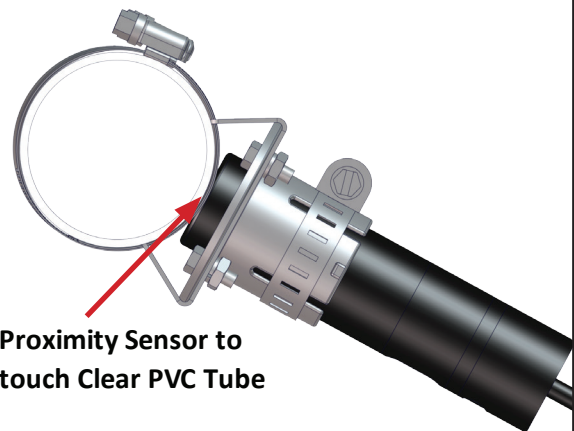


Figure 5



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

Figure 6

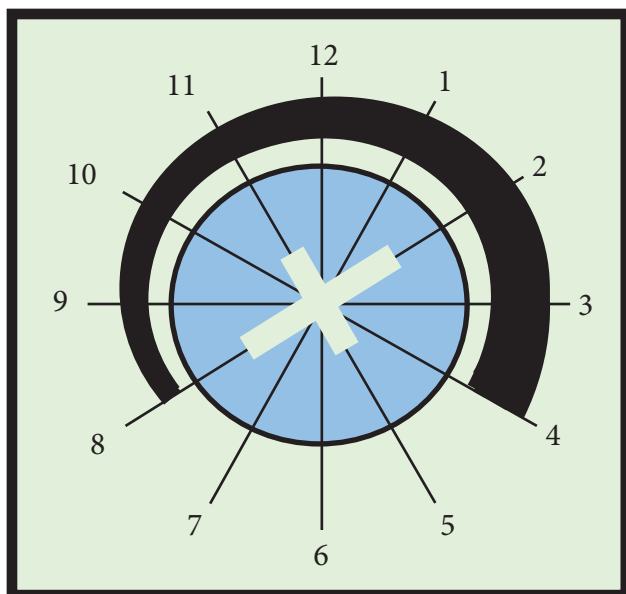


Figure 7



## Sample Time Delay

Figure 8



3s-60min Sample		
Clock Position	Degrees of Trimmer Rotation	Time Delay
8	0	3 s
8:30	15	3 s
9	30	50 s
9:30	45	1 min 28 s
10	60	2 mins 19 s
10:30	75	2 mins 55 s
11	90	3 mins 42 s
12	120	5 mins
1:20	130	5 mins
1	150	8 mins 38 s
1:30	165	19 mins 5 s
2	180	29 mins 25 s
3	210	51 mins 49 s
4	240	1 hour

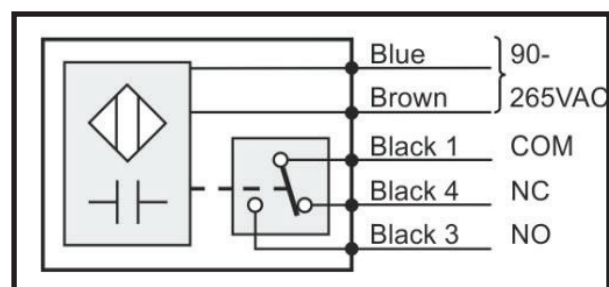
## Sensor Information - Wiring

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 9 shows the wiring diagram for this sensor. This diagram is also included on the sensor's label.

Figure 9



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

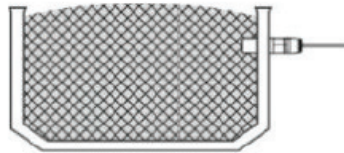
# User's Guide



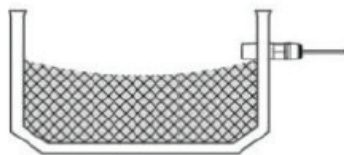
The **Red LED**, indicates the status of the sensor. Figure 10 shows an example of the LED sequence for this sensor.

**Figure 10**

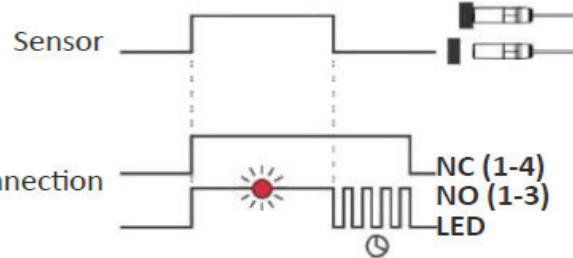
Relay NC (1-4)



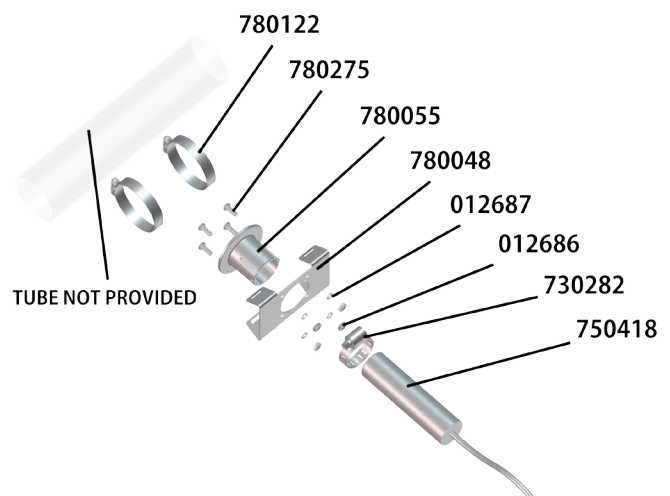
Relay NO (1-3)  
after delay



LED SEQUENCE



Part #	Description	Qty
	<b>780350</b>	
012686	#10-24 SS MACHINE SCREW NUT	4
012687	#10 SS MEDIUM SPLIT LOCKWASHER	4
730282	HOSE CLAMP, 1-1/2" SS	1
750418	PROX SENSOR, DOL 44R-33 90-265V	1
780048	PROX SENSOR MTG BRACKET	1
780055	PROX SENSOR BASE W/HOLE	1
780122	SS TUBE CLAMP	2
780275	#10-24 X 1/2" SS HEX BOLT	4



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