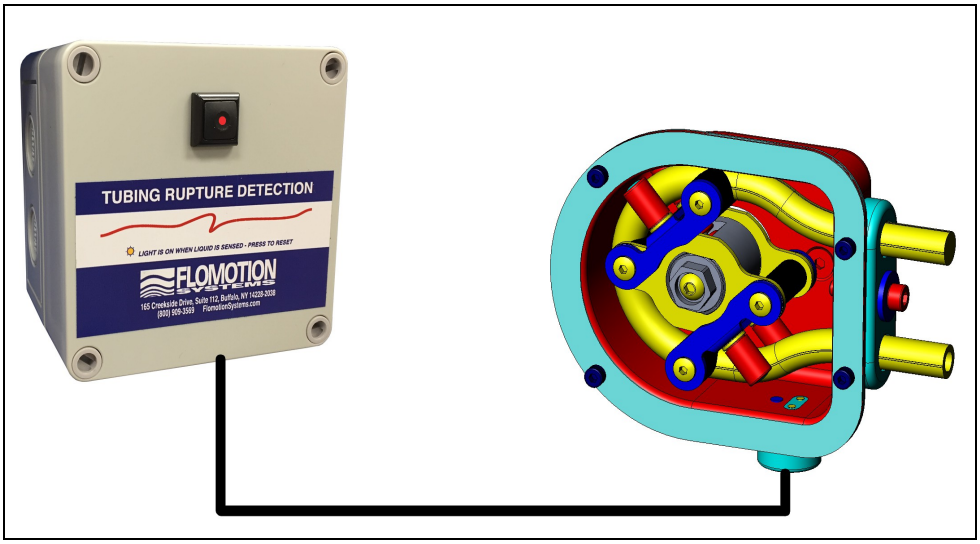
TRD Series Tubing Rupture Detector
Operating Guide

For use with Peristaltic Chemical Feed Pumps

Installation and Operation Manual



TRD Series
Tubing Rupture Detector

February 1 2018

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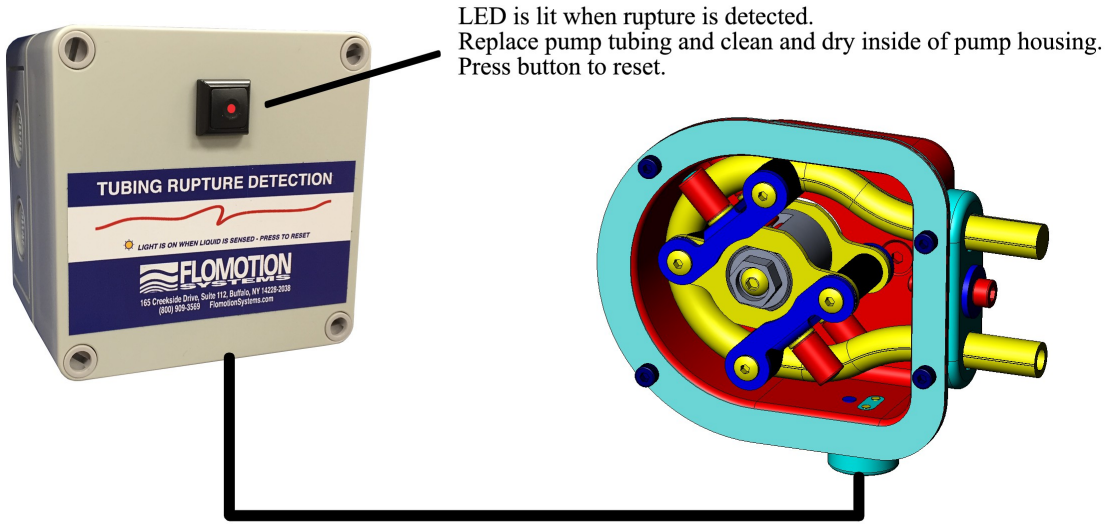
1.0 - System Overview

The TRD Tubing Rupture Detector



Alarm Causes

A rupture alarm is triggered by the presence of a conductive fluid in the pump. When the fluid bridges the two stainless steel electrodes on the LIQUID SENSOR the alarm is triggered.

What to do in an alarm condition

To clear the alarm, first stop the pump and **disconnect power from the pump controller**. Remove the pump cover and remove the ruptured pump tubing. Clean the inside of the pump with a soft rag. Remove any liquid or tubing debris from the inside of the pump and the area around the LIQUID SENSOR. Inspect rollers and clean if necessary.

Resetting the alarm

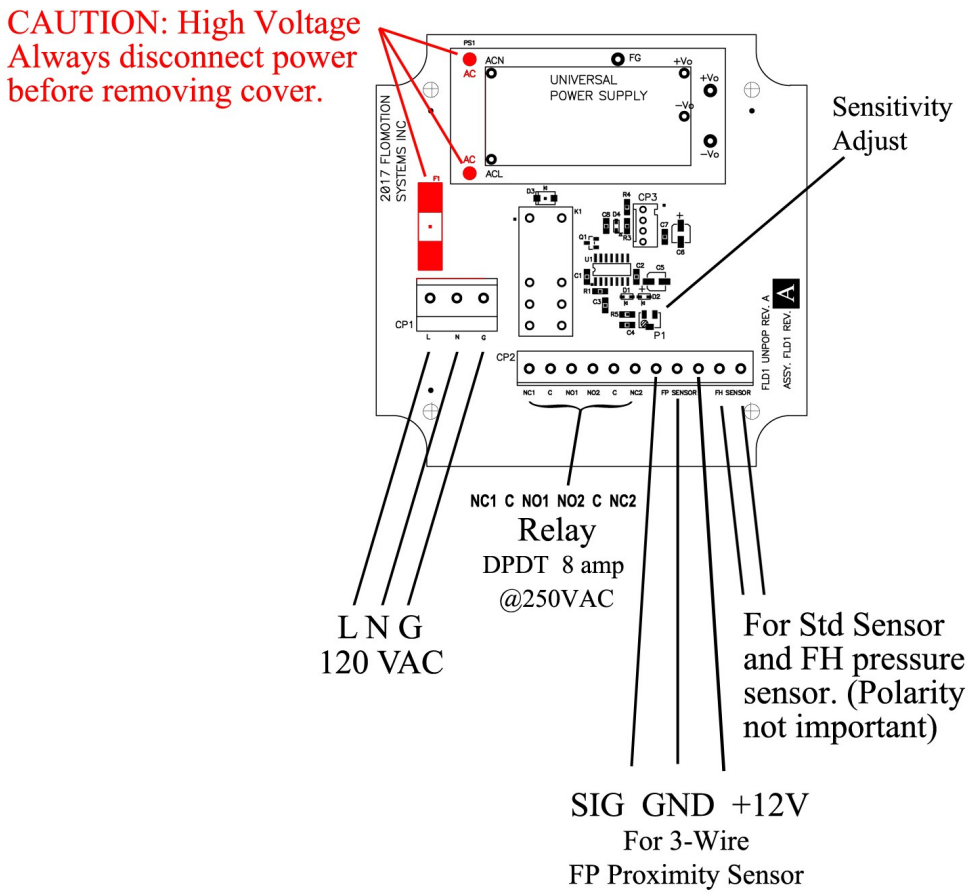
Press the pushbutton on the front of the Tubing Rupture Detector to reset the alarm.

Resuming Service

Install a fresh tubing insert and the pump is ready to resume service.

Interfacing

A dual 8 Amp DC DPDT relay is provided to signal or control an external device during an alarm condition. Wiring connections are shown below.



Calibration

Using a small screw driver turn the sensitivity adjusting screw counter clockwise several turns. Apply a wet rag to the LIQUID SENSOR electrodes. Adjust the sensitivity clockwise slowly until the alarm trips.