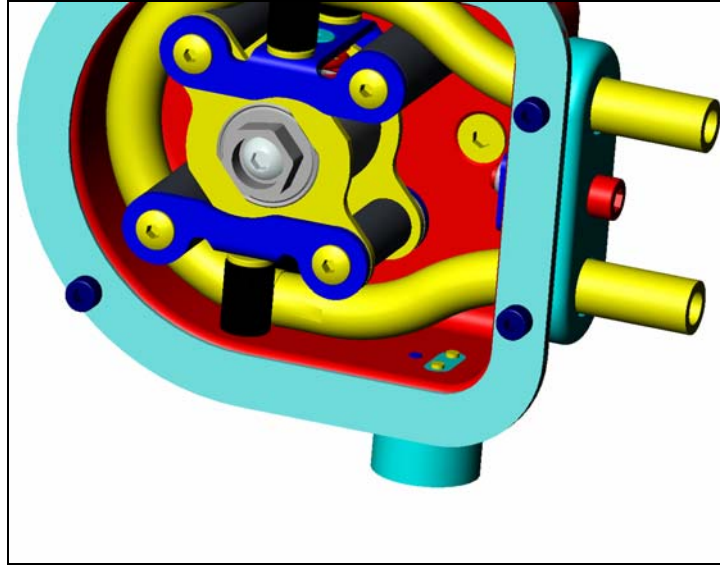




**2001 Series Tubing Rupture Detector
Operating Guide**

For use with 2001 Series Peristaltic Chemical Feed Pumps

Installation and Operation Manual



2001 Series Tubing Rupture Detector

October 2008

Flomotion Systems, Inc.
586 N. French Rd.
Amherst, NY 14228
U.S.A.
716-691-1253
800-909-3569
www.FlomotionSystems.com

TABLE OF CONTENTS

1.0 - SYSTEM OVERVIEW..... 4

THE 2001 SERIES TUBING RUPTURE DETECTOR 4

 Alarm Causes 4

 What to do in an alarm condition 4

 Resetting the alarm..... 4

 Resuming Service..... 4

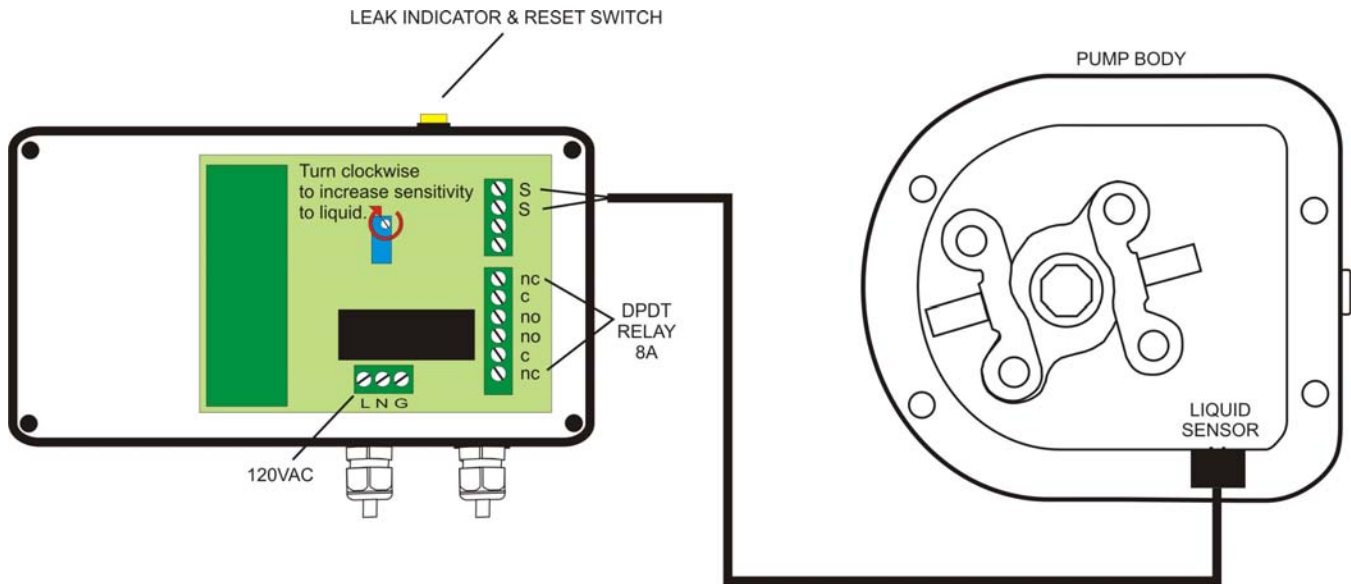
INTERFACING 5

 Interfacing to the 2001HE/HEC AC TECH SMVECTOR controller 6

CALIBRATION 7

1.0 - System Overview

The 2001 Series 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

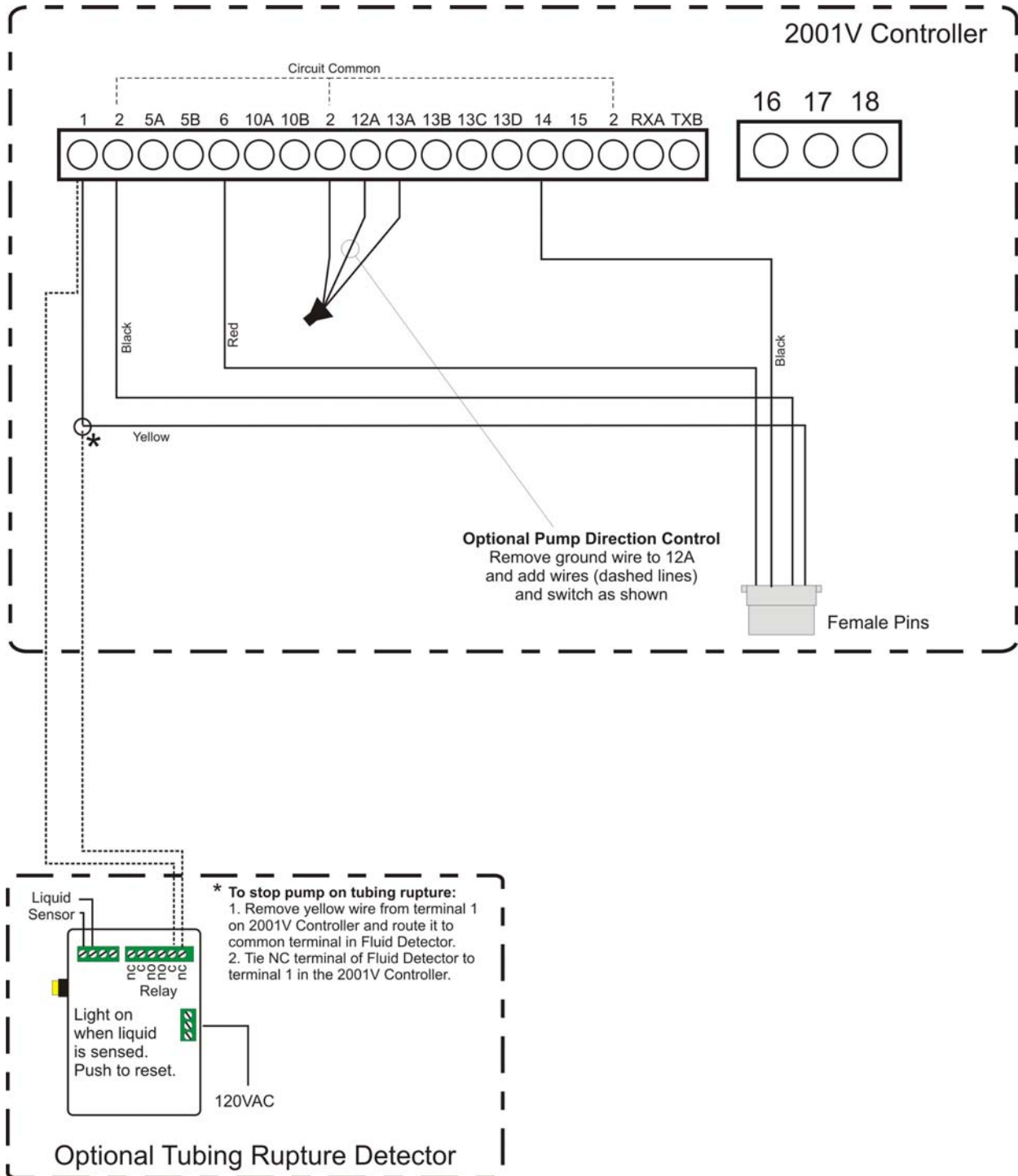
Press the yellow pushbutton (LEAK INDICATOR & RESET SWITCH) on the top of the Tubing Rupture Detector to reset the alarm.

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. An example of using the Tubing Rupture Detector to control a 2001V Pump Controller is shown below.



Interfacing to the 2001HE/HEC AC TECH SMVECTOR controller

Connect the Tubing Rupture Detector NC relay contacts to pins 1 & 4 of the SMVector pump controller.

Program the SMVector Pump Controller step P100, changing the value from 0 to 1.

To do this:

1. Press the M key.
2. Enter password 0225 by holding down the UP arrow key then press the M key when done.
3. P100 is shown on the display.
4. Press the M key and change the P100 value from 0 to 1, then press the M key to save your change.

The pump is now set to run only when the Tubing Rupture Detector is not in alarm condition.

Calibration

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.