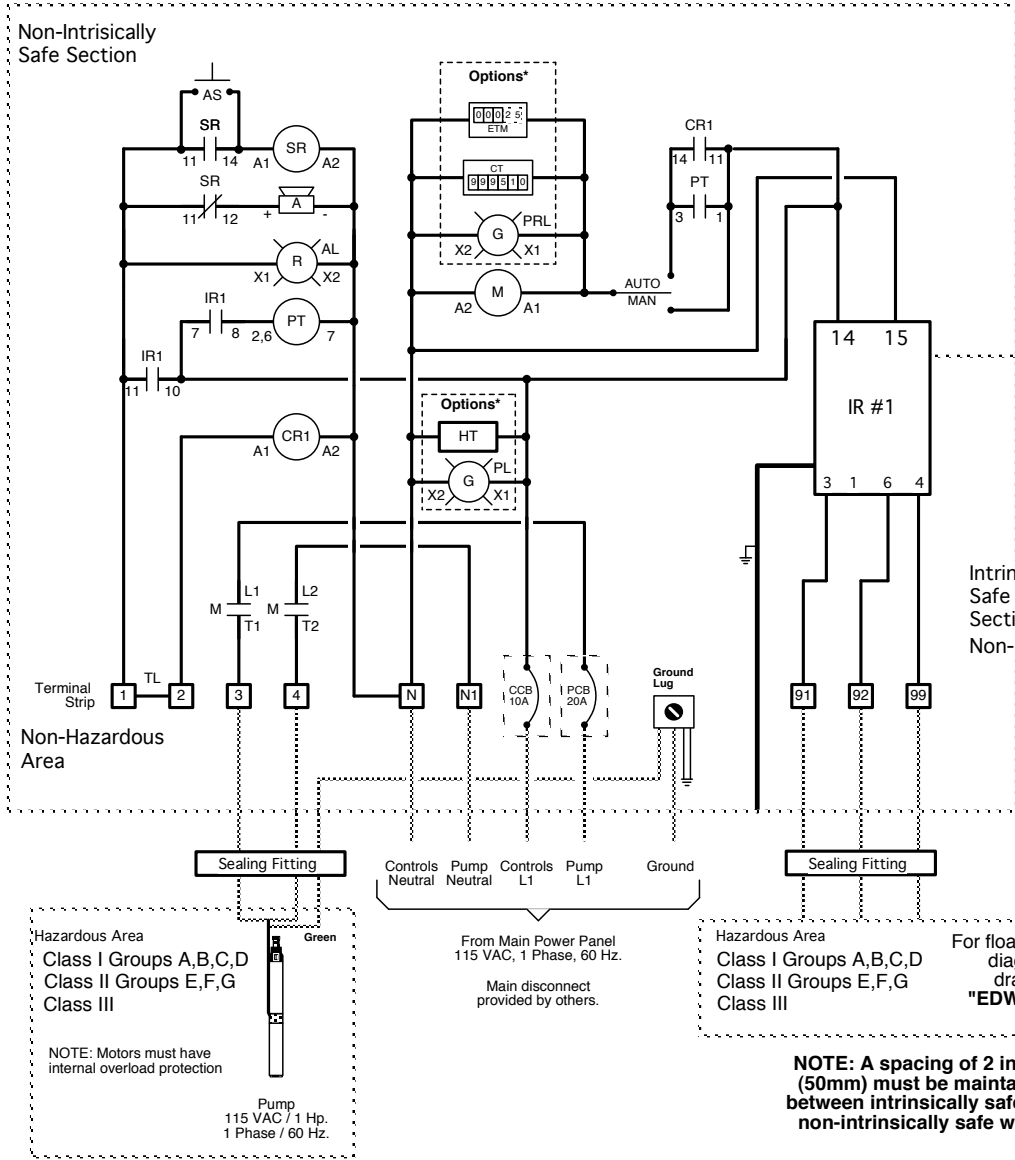# Panel Wiring Diagram
## Model S1 IR1 PT

### Simplex Operation

**High Level Alarm:** This float activates the alarm light and audible alarm when lifted. The audible alarm may be silenced by pressing the illuminated PUSH TO SILENCE button on the front of the control panel. The alarm light will remain on until the float is lowered.
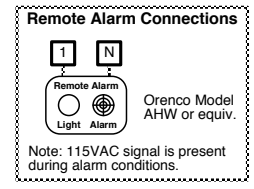
**Timer On & Off:** This float turns off the programmable timer when lowered. When this float is lifted the timer will be restarted. Note: The timer will start with its off cycle.

**Programmable Timer:** The timer turns the pump on and off in a pre-set cycle. Note: The timer will start with its off cycle.

### Non-Intrisically Safe Section

Options*
ETM
CT

SR 11 14 A1 (SR) A2
SR 11 12 (A) -
(R) AL X1 X2
IR1 7 8 2,6 (PT) 7
IR1 11 10
CR1 A1 (CR1) A2

CR1 14 11
PT 3 1

G X2 PRL X1
M A2 A1 AUTO MAN

Options*
HT
G X2 PL X1

14 15
IR #1
3 1 6 4

M L1 T1   M L2 T2

### Key

— = Factory Wire
····· = Field Wire
┅ = Alternate Field Wire
A = Audio Alarm, 115 VAC
AL = Alarm Light
AS = Audio Silence Switch
CCB = Controls Circuit Breaker
CR1 = Override Relay
IR = Intrinsically Safe Relay
M = Motor Contactor
PCB = Pump Circuit Breaker
SR = Silence Control Relay
TL = Terminal Link

**\*Options**
CT = Cycle Counter
ETM = Elapsed Time Meter
HT = Heater
PL = Power Light
PRL = Pump Run Light

### Remote Alarm Connections

1   N

Remote Alarm
Light   Alarm

Orenco Model
AHW or equiv.

Note: 115VAC signal is present during alarm conditions.

Intrinsically Safe Section Non-Hazardous

Terminal Strip: TL 1   2   3   4   N   N1   CCB 10A   PCB 20A   Ground Lug   91   92   99

Non-Hazardous Area

Sealing Fitting

Controls Neutral   Pump Neutral   Controls L1   Pump L1   Ground

Sealing Fitting

Hazardous Area
Class I Groups A,B,C,D
Class II Groups E,F,G
Class III

NOTE: Motors must have internal overload protection

Green

Pump
115 VAC / 1 Hp.
1 Phase / 60 Hz.

From Main Power Panel
115 VAC, 1 Phase, 60 Hz.

Main disconnect provided by others.

Hazardous Area
Class I Groups A,B,C,D
Class II Groups E,F,G
Class III

For float arrangement diagram, see drawing no. **"EDW-FA-S-503"**.

**NOTE: A spacing of 2 inches (50mm) must be maintained between intrinsically safe, and non-intrinsically safe wiring.**

### Power Wiring Options

Two Circuits

10 ON   20 ON
N   N1   CONTROLS   PUMP
Pump Neutral   Controls Neutral   Controls L1   Pump L1   Ground

Factory default. Wire as shown.

One Circuit

10 ON   20 ON
CONTROLS   PUMP
Wire Nut   Neutral   L1   Ground

Use one wire nut to connect the pole of the pump circuit breaker together with the controls breaker and with the incoming L1 power line. Use another wire nut to connect the neutral block of the pump with the controls neutral block and with the incoming neutral line.