

## **Seal & Temp-Stat Relay**



## Specifications Electrical

Supply Voltage: 12VDC & 24VDC

24VAC, 120VAC & 240VAC Frequency: 50/60Hz Power Consumption: 2VA Inputs: 5VDC @ 2mA

2-Input:

Seal: Adjustable  $5K\Omega$  to  $200K\Omega$ ,

+5KΩ Hystersis

Temp-Stat: 1NC Contact, Good condition

1-Input:

Resistance trip points fixed at  $330\Omega \& 1,500\Omega$ 

Seal Fault: <330Ω

Temp-Stat Fault:  $>1,500\Omega$  Contact Ratings:

(2) SPDT @ 25°C 5A @ 120VAC 6A @ 277VAC

1/8HP @ 120/277VAC

5A @ 30VDC

**Adjustments: (**4) Membrane Buttons **Display:** 16 Character, 2-line display, with back light

## **Physical**

**Mounting:** Surface Mounting: (2) Mounting Holes

#### Termination:

Push-On Tabs: 1/4" Tabs, 3 Sense, 8

Control

Terminals: Pluggable Terminal Blocks **Packaging:** Surface Mount, Epoxy Fill

Weight: 1 Pound

## **Ambient Temperatures**

## Operating:

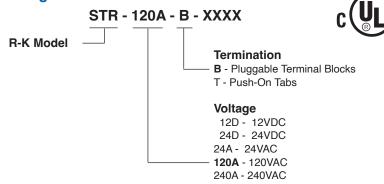
Tabs: -40°C to 65°C

Terminal Blocks: -40°C to 60°C (Display and membrane buttons may not function below -20°C.)

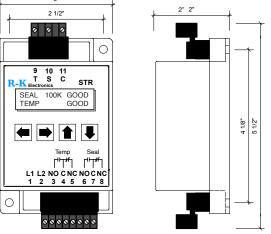
Storage: -40°C to 85°C



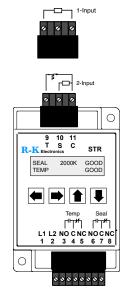
## Ordering Information



# Dimensions 3°



## **Connections**



## **Operation**

The STR monitors the seal and embedded temperature sensor on submersible pump motors. If the resistance in the seal area goes lower than the set point or the temp-stat opens, individual relay outputs will be energized, one for a seal failure and one for a temp-stat failure.

### 2-Input Operation

To monitor the seal for a leakage, low voltage is applied to the seal sensor. If the resistance sensed falls below the adjustable trip point, the seal fault output relay will be energized. High resistance is considered "good".

To monitor the temp-stat, low voltage is applied to the normally closed contact. If the contact opens, the temperature fault output relay will be energized. A normally closed input is considered "good."

## 1-Input Operation

An alternate input option is also built into the STR. With the 1-input option selected, if the resistance is between  $330\Omega$  and  $1,500\Omega,$  both the seal and temp-stat are considered "good". If the input resistance falls below  $330\Omega,$  a seal fault is indicated and the seal fault output relay will be energized. If the input resistance goes above  $1,500\Omega,$  a high temperature fault is indicated and the temperature fault output relay will be energized.

Adjustments are available to:

- Select 1-Input or 2-Input operation
- Select the resistance on the 2-input operation from  $5K\Omega$  to  $200K\Omega$
- Select a Manual or Automatic reset after a fault has been corrected.