Description

The ALT-xxx-1-SW/ALT-xxx-3-SW Series are used to alternate between two loads and are commonly used in duplex pump-up and pump-down applications to balance the runtime of both pumps.

The ALT relays have a built-in debounce time delay that prevents the relay from changing state if the float momentarily bounces, and they have a built-in switch to manually force a specific load (pump) to operate each time the input float closes. This is helpful when performing periodic maintenance or pump repair.

Must use the OT08PC socket for the 8-pin models, and the OT11PC socket for the 11-pin models, for UL Rating!

*Note: Manufacturer’s recommended screw terminal torque for the OT Series Octal Sockets is 12 in.-lbs.

Features & Benefits

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Debounce time delay</td>
<td>Prevents rapid cycling caused by waves or splashing in the tank</td>
</tr>
<tr>
<td>LED indicators</td>
<td>Visual indication of load operation in duplex application</td>
</tr>
<tr>
<td>Built-in manual switch to force load operation</td>
<td>Helpful to control load operation when performing periodic maintenance or pump repair</td>
</tr>
<tr>
<td>ALT-xxx-3-SW offers duplexing</td>
<td>Allows lag pump to energize if lead pump can’t handle current demand</td>
</tr>
</tbody>
</table>

Accessories

**OT08PC 8-pin Octal Socket**
Octal Socket for plug-in units. 8-pin surface & DIN rail mountable. Rated for 10A @ 600VAC.

**OT11PC 11-pin Magnal Socket**
11-pin surface & DIN rail mountable. Rated for 10A @ 300VAC

Ordering Information

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LINE VOLTAGE</th>
<th>MOUNTING</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALT-100-1-SW</td>
<td>95-120VAC</td>
<td>11-pin maginal</td>
<td>Single float input, two isolated Form C relays (DPDT), 2 LEDs for load indication</td>
</tr>
<tr>
<td>ALT-100-3-SW</td>
<td>95-120VAC</td>
<td>8-pin octal</td>
<td>Three float inputs (lead, lag, stop floats), actuating latching relays on lead/lag floats, 2 LEDs for load indication</td>
</tr>
<tr>
<td>ALT-200-3-SW</td>
<td>190-240VAC</td>
<td>8-pin octal</td>
<td>Three float inputs (lead, lag, stop floats), actuating latching relays on lead/lag floats, 2 LEDs for load indication</td>
</tr>
</tbody>
</table>
### Specifications

#### Input Characteristics
- **Supply Voltage**
  - ALT-100-1-SW: 95-120VAC
  - ALT-100-3-SW: 190-240VAC
  - ALT-200-3-SW: 190-240VAC
- **Frequency**
  - 50/60Hz

#### Functional Characteristics
- **Debounce Time Delay**
  - ALT-100-1-SW: 1 second
  - ALT-100-3-SW: 5 seconds
  - ALT-200-3-SW: 5 seconds

#### Output Characteristics
- **Output Relay (DPDT)**
  - Pilot Duty: 480VA @ 240VAC
  - General Purpose: 10A @ 240VAC

#### General Characteristics
- **Temperature Range**
  - -40° to 70°C (-40° to 158°F)
- **Maximum Input Power**
  - 5 W

### Standards Passed

- **Electrostatic Discharge (ESD)**
  - IEC 61000-4-2, Level 3, 6kV contact, 8kV air

- **Radio Frequency, Radiated**
  - 150MHz, 10V/m

- **Fast Transient Burst**
  - IEC 61000-4-4, Level 3, 3.5kV input power and controls

- **Safety Marks**
  - UL (OT08PC or OT11PC octal socket required)
  - UL508 (File #E68520)
  - IEC 60947-6-2

- **Dimensions**
  - H 44.45 mm (1.75”);
  - W 60.33 mm (2.375”);
  - D 104.78 mm (4.125”) (with socket)

- **Weight**
  - 0.65 lb. (10.4 oz., 294.84 g)

- **Mounting Method**
  - DIN rail or surface mount (plug into OT08PC or OT11PC socket)

- **Sockets Available**
  - Model OT08PC
  - Model OT11PC

- **UL Rating**
  - UL Rating 600V
  - UL Rating 300V

The sockets can be surface mounted or installed on DIN Rail.