Alternating Relay

Model ALT

8-pin plug-in, single or dual float input, with or without manual switch

The Model ALT

alternating relays are used to alternate between two loads. The ALT is commonly used in duplex pumping applications to balance the runtime of both pumps.

The Model ALT-S

is used in single high-level float applications. When the float switch opens, the alternating relay changes state, forcing the other pump to run the next time the float closes.

The Model ALT-X

has an internal cross-connected relay and is used in dual high-level float applications. These floats are commonly referred to as lead and lag floats. The pumps alternate as in the ALT-S version but the cross-connected relay configuration allows both pumps to run simultaneously when both the lead and lag floats are closed.

These relays are also available with a built-in switch (SW option) that is used to manually force one of the pumps to run every time the float switch is closed. This is helpful when a pump has been removed for repair or for test purposes. In the case of the Model ALT-X-SW, the switch essentially forces one pump to be the lead pump, while still allowing the second to run when both floats are closed. All Model ALT relays have a built-in debounce feature that prevents the relay from changing state if the switch or float contact bounces momentarily.

For more information see:
See Appendix A, page 68, Figure 8 for dimensional drawing.
See Appendix B, page 79, Figures 42 & 43 for typical wiring diagrams.

Must use Model OT08-PC or RB08-PC socket for UL Rating!

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

Features:

- Alternate between two loads
- Debounce time delay
- Optional built-in manual/auto switch
- SPDT or cross-wire connected DPDT

Approvals:

Auxiliary Products:

- 8-pin octal socket (P/N: CT0T08-PC)

Available Models:

ALT-24-S
ALT-24-S-SW
ALT-115-S
ALT-115-S-SW
ALT-115-X
ALT-115-X-SW
ALT-230-S
ALT-230-S-SW
ALT-230-X
ALT-230-X-SW

Specifications

Input Characteristics
Supply Voltage
24VAC ..... 20-26VAC or VDC
115VAC 95-125VAC
230VAC 195-250VAC
Supply Current 40mA
Functional Characteristics
Debounce Time Delay ..... 0.5 second
Control Input Impedance (min).)
24 ..... 10kΩ
115 ..... 56kΩ
230 ..... 100kΩ
Output Characteristics
Output Contact Rating ..... 480VA @ 240VAC
General Characteristics
Temperature Range ..... -40° to 50°C (-40° to 122°F)
Maximum Input Power ..... 5 W
Safety Marks
UL (OT08-PC octal socket required) ..... UL508 (File #E68520)
CSA ..... C22.2 No. 14 (File #46510)
Dimensions ..... 1.750" H x 2.375" W x 4.125" D (with socket)
(44.45 x 60.325 x 104.775mm)
Weight ..... 0.38 lb. (6.08 oz., 172.67 g)
Mounting Method ..... DIN rail or surface mount (plug into OT08-PC socket)
Socket Available ..... Model OT08-PC (UL Rating 600V)

The 600V socket can be surface mounted or installed on DIN Rail.