ALT-XXX-1-SW / ALT-XXX-3-SW SERIES

Alternating Relay

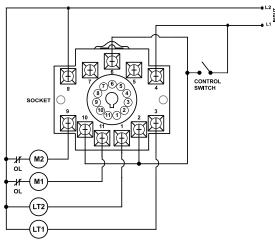


Expertise Applied Answers Delivered



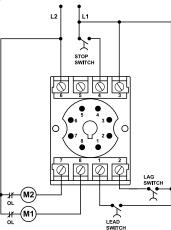
Wiring Diagram

TYPICAL WIRING DIAGRAM FOR ALT-XXX-1-SW



INPUT POWER

TYPICAL WIRING DIAGRAM FOR ALT-XXX-3-SW



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.-Ibs.

Features & Benefits

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

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

MODEL	LINE VOTAGE	MOUNTING	DESCRIPTION
ALT-100-1-SW	95-120VAC	11-pin magnal	Single float input, two isolated Form C relays (DPDT), 2 LEDs for load indication
ALT-100-3-SW	95-120VAC	8-pin octal	Three float inputs (lead, lag, stop floats), actuating latching relays on lead/lag floats, 2 LEDs for load indication
ALT-200-3-SW	190-240VAC	8-pin octal	Three float inputs (lead, lag, stop floats), actuating latching relays on lead/lag floats, 2 LEDs for load indication

Protection Relays Pump Controls and Liquid Level Controls

ALT-XXX-1-SW / ALT-XXX-3-SW SERIES



Specifications

Input Characteristics Supply Voltage ALT-100-1-SW, ALT-100-3-SW ALT-200-3-SW Frequency **Functional Characteristics Debounce Time Delay** ALT-100-1-SW, ALT-100-3-SW, ALT-200-3-SW **Output Characteristics** Output Relay (DPDT) **Pilot Duty** General Purpose **General Characteristics**

Temperature Range Maximum Input Power 95-120VAC 190-240VAC 50/60Hz

1 second

5 seconds

480VA @ 240VAC 10A @ 240VAC

-40° to 70°C (-40° to 158°F) 5 W

Standards Passed

Electrostatic Discharge (ESD) IEC 61000-4-2, Level 3, 6kV contact, 8kV air **Radio Frequency, Radiated Fast Transient Burst**

Safety Marks UL (OTO8PC or OT11PC octal socket required) CE Dimensions

Weight Mounting Method

Sockets Available Model OT08PC Model OT11PC

150MHz, 10V/m IEC 61000-4-4, Level 3, 3.5kV input power and controls

UL508 (File #E68520) IEC 60947-6-2 **H** 44.45 mm (1.75"); **W** 60.33 mm (2.375"); **D** 104.78 mm (4.125") (with socket) 0.65 lb. (10.4 oz., 294.84 g) DIN rail or surface mount (plug into OT08PC or OT11PC socket)

UL Rating 600V UL Rating 300V

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