

**HSG 120** 

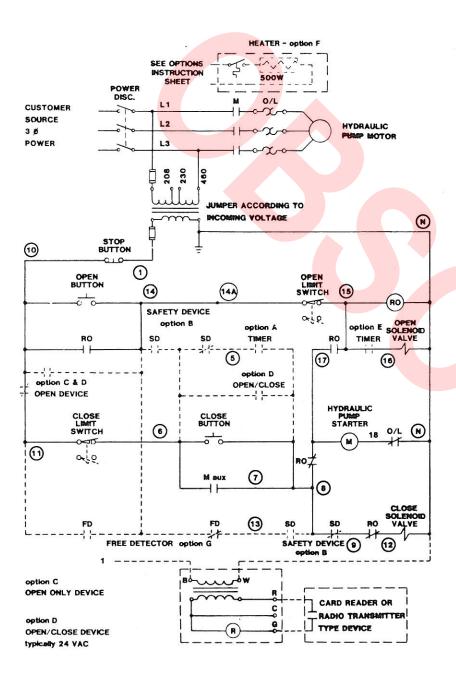
Wiring

#### **DISCLAIMER**

HySecurity relay-controlled hydraulic gate operators do not meet current UL 325 Safety Standards and that HySecurity recommends decommission and replacement of all manufacturers' relay-controlled operators with modern Smart Touch™ based operators, which fully comply with UL 325 safety standards. By downloading and using this document you acknowledge that HySecurity no longer provides parts or technical support for those older operators.

#### Note

HySecurity accepts no responsibility, implied or express, for claims arising from continued use of pre-2001 relay-controlled operators.



### NOTES:

- 1. CIRCUIT PROTECTION AND SWITCHING BY OTHERS.
- 2. LIMIT SWITCHES SHOWN WITH GATE IN TRANSIT.
- NUMBERS IN CIRCLES INDICATE TERMINAL NUMBERS.
- 4. DASHED LINES INDICATE OPTIONAL WIRING.
- WHEN USING A THREE BUTTON STATION AND CONSTANT HOLD CLOSE IS DESIRED, REMOVE TERMINAL JUMPER 7-8.
- IF THE THREE BUTTON STATION IS NOT USED, JUMPER 1 TO 10 TO REPLACE STOP BUTTON.
- ON HSG AND HTG OPERATORS, THE OPEN AND CLOSE LIMIT SWITCH NORMALLY OPEN CON-TACTS ARE AVAILABLE FOR CUSTOMER USE. CONNECT TO THE UNUSED ORANGE/WHITE PAIRS ON THE LEFT SIDE OF THE CONTROL PANEL.
- 8. ON HRG OPERATORS, THE CLOSE LIMIT SWITCH NORMALLY OPEN CONTACTS ARE AVAILABLE ONLY. CONNECT TO THE UNUSED ORANGE AND WHITE WIRES OF THE OPERATORS SIX WIRE LIMIT BUNDLE.

### **OPTIONS:**

- A. TIME DELAY TO CLOSE THIS OPTION WILL CLOSE YOUR GATE FROM THE FULL OPEN POSITION.
- B. SAFETY DEVICE A SAFETY DEVICE, SUCH AS A PHOTO EYE OR LOOP DETECTOR, WILL REVERSE YOUR GATE TO THE FULLY OPEN POSITION OR PREVENT CLOSING IF THE GATE IS FULLY OPEN. TWO CONNECTIONS ARE POSSIBLE; USE CONNECTIONS 5, 6 AND 14, IF TIMER RESET IS DESIRED, USE CONNECTIONS 13, 17 and 9 TO PERMIT CLOSURE IMMEDIATELY AFTER SAFETY DEVICE IS CLEARED.
- C. OPEN DEVICE A LOW VOLTAGE INTERFACE FROM A SINGLE BUTTON 2 WAY CONTROL (TYPICALLY A RADIO TRANSMITTER OR CARD READER) WILL OPEN THE GATE. THIS OPTION IS COMMONLY USED IN CONJUNCTION WITH OPTION A, TIME DELAY TO CLOSE THE GATE.
- D. OPEN CLOSE DEVICE A LOW VOLTAGE INTERFACE FROM A SINGLE BUTTON 2 WAY CONTROL (TYPICALLY A RADIO TRANSITTER) WILL OPEN, CLOSE OR REVERSE THE GATE IF IT IS CLOSING.
- E. IE' TYPE A TIMER IS ADDED BY THE FACTORY AS PART OF THE MODIFICATION TO CONVERT AN OPERATOR TO THIS TYPE.
- F. HEATER A HEATER MAY BE ADDED FOR COLDER CLIMATES TO MAINTAIN THE HYDRAULIC OIL OPERATING TEMPERATURE.
- G. FREE DETECTOR A LOOP DETECTOR MAY BE USED TO OPEN THE GATE.
- H. ELECTRICAL INTERLOCK TWO HY-SECURITY OPERATORS MAY BE INTERLOCKED, SEE OPTIONS SHEET.

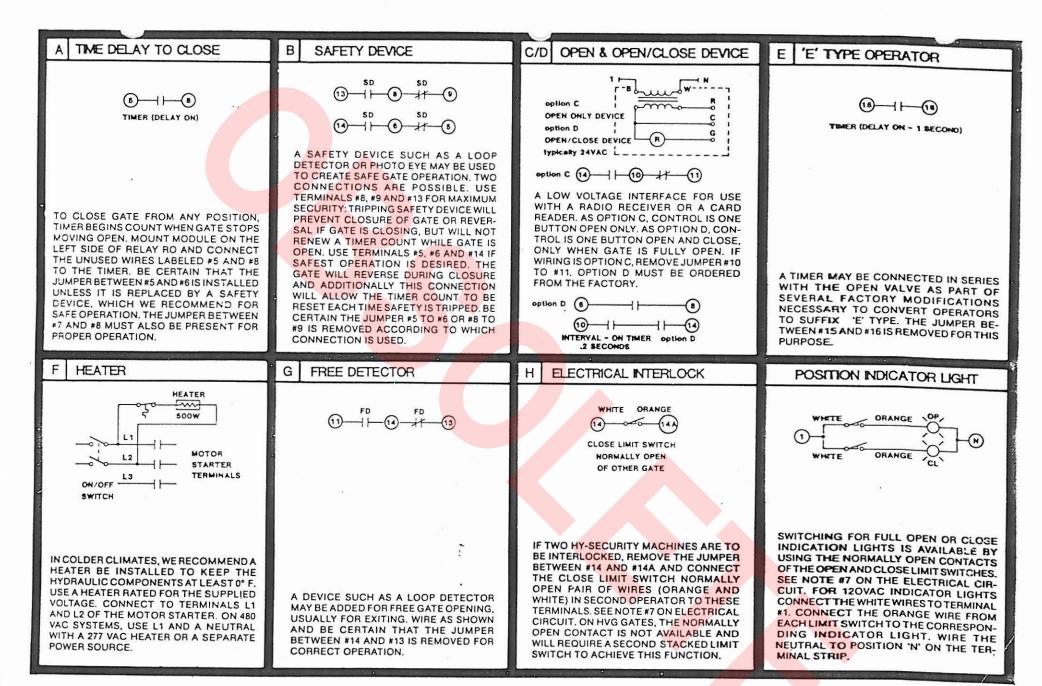
#### **TERMINAL BLOCK:**





# **Hy-Security** Gate Operators

Manufacturers and Designers of Hydraulic Systems P.O. Box 31532 408 N. 35th, Seattle, WA 98103 Phone: (206) 632-0538

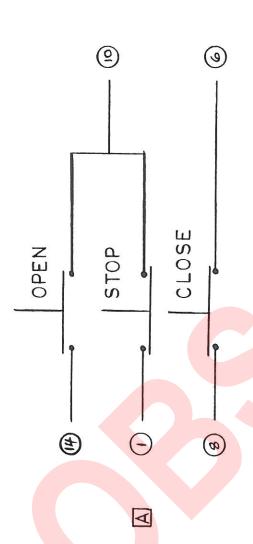


# **ELECTRICAL CIRCUIT OPTIONS**

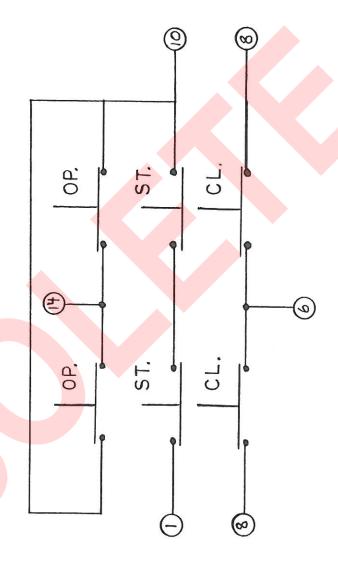


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BUTTON STATION SCHEMATICS



8

HYS PB17/19

A I BUTTON STATION

B 2 BUTTON STATIONS