



FIELD WIRING

REV	DESCRIPTION	DATE	BY
1	NEW BOARD LAYOUT & CONNECTIONS; UPDATE GND.	26JAN21	WJR
2	ADD LATEST S&S BOARD AND WIRING MODS	05SEPT23	DJB
2	ADD REFERENCE TO EARTH GROUND	05SEPT23	DJB
3	ADD LATEST SNS BOARD AND WIRING MODS	08AUG24	DJB
4	NEW BACKGROUND, LOGO & COMPONENT P/Ns	23MAY25	DJB

USE STABILIZER BRACKET WITH 4 OR MORE SWITCHES IN A STACK

SWITCH LAYOUT

ON →

S1

**ACTUATOR SHOWN IN OPEN POSITION**

**NOTES:**

- 1) INPUT POWER SOURCE TO BE 115VAC OR 230VAC. @ 1.2A MINIMUM.
- 2) INPUT FUSE IS PICO, TR5 AT 10A, 250VAC.
- 3) UNIT IS SHIPPED WITHOUT THE BATTERY PLUGGED IN. AFTER INSTALLING UNIT AND CONNECTING INCOMING POWER, PLUG THE POSITIVE BATTERY WIRE PUSH ON ONTO THE RED BATTERY TERMINAL.
- 4) CAMS FOR LIMIT SWITCHES ARE PRESET AT THE FACTORY. TO INCREASE OR DECREASE VALVE MOTION, ADJUST SLIGHTLY THE ZERO (Z) OR SPAN (S) POTS ON THE POSITIONER BOARD.
- 5) THE "FAIL" CONDITION IS SET PER THE DIP SWITCHES ON THE DMC-102 CONTROLLER BOARD - SEE DATA SHEET FOR SETTINGS FOR FAIL OPEN, CLOSE OR FAIL IN PLACE.
- 6) WHEN INCOMING POWER IS PRESENT, BLUE LED WILL BE LIT AND ACTUATOR RUNS OFF OF INCOMING POWER. WHEN INCOMING POWER FAILS, BLUE LED WILL TURN OFF AND THE YELLOW BATTERY LED WILL LIGHT - ACTUATOR WILL MOVE TO THE "FAIL" POSITION 1 TIME AND STAY THERE UNTIL POWER IS RESTORED.
- 7) RED LED WILL LIGHT WHEN BATTERY VOLTAGE GETS TOO LOW. GREEN LED WILL LIGHT WHEN BATTERY VOLTAGE IS ABOVE 10.5VDC.
- 8) 4-20mA SIGNAL IS DELIVERED TO THE DMC-102 DC BOARD TO OPEN AND CLOSE THE ACTUATOR.
- 9) THE ACTUATOR WILL "FAIL" TO THE OPEN OR CLOSE POSITION IF THE 4-20ma SIGNAL FAILS OR IF THE INCOMING POWER FAILS.
- 10) DRY CONTACTS ARE PROVIDED TO INDICATE BATTERY STATUS AND INCOMING POWER STATUS. BATTERY STATUS CAN BE CHECKED WITH THE INCOMING POWER ON BY SHORTING THE 2 BATT TEST POINTS J7-2 & J10-1 MOMENTARILY.

**THE USER IS REQUIRED TO MAKE SURE THAT THE DC POWER GROUND (-) AND THE CONTROL SIGNAL GROUND (-) ARE TIED TOGETHER. AND ALSO REFERENCED TO EARTH GROUND AT THE CONTROL CABINET**