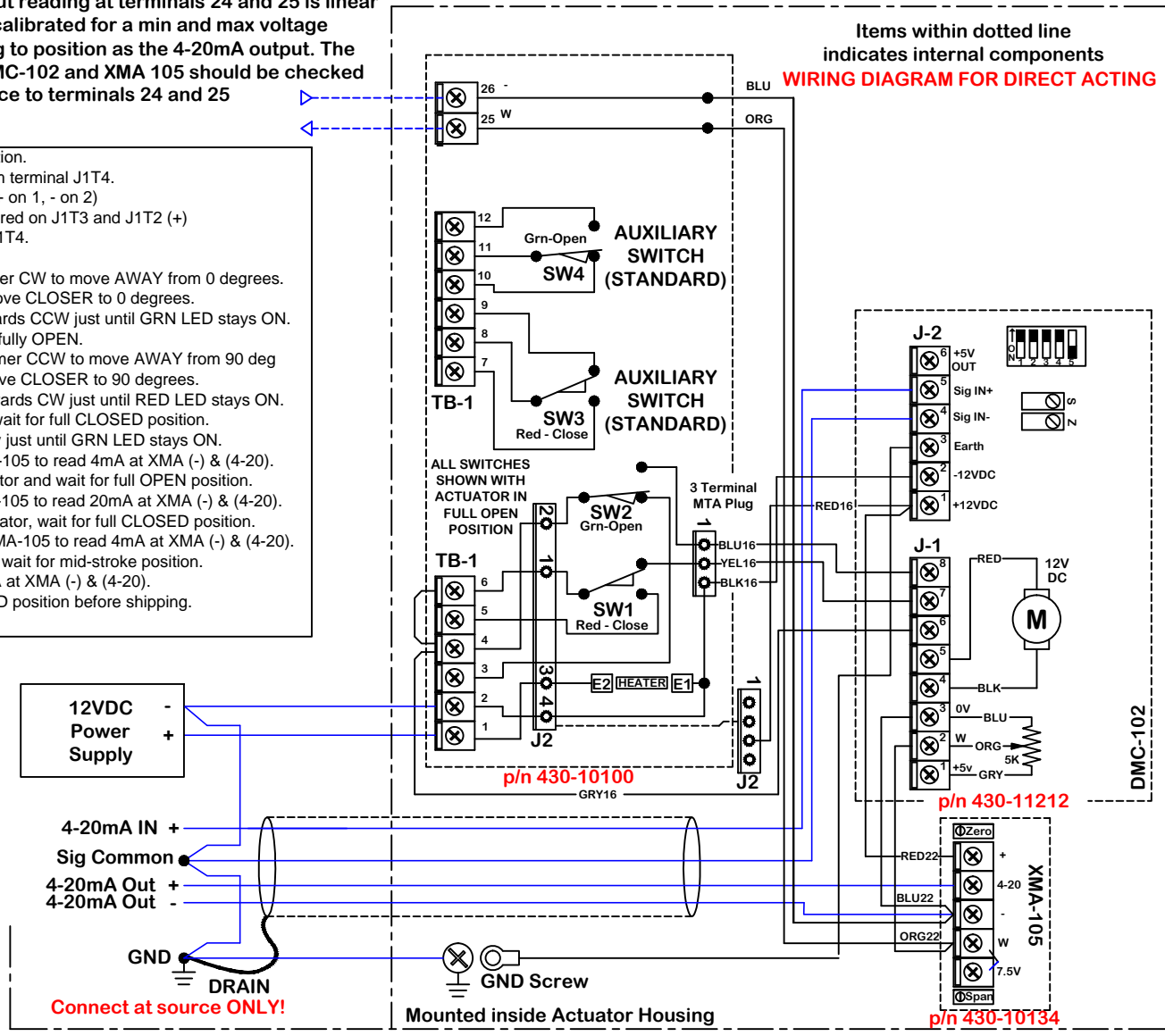


rev	change date	08/09/2016	New Document for product with DMC-102 XMA-105 and voltage out from pot	revision	name	8/12/2016 10:22 AM	WD-850-21341.dwg	REV	A	material	ind	Wiring Diagram	material no	none	scale	NONE	Date	9.2.2011	Date	9.2.2011	dwn by:	BJW	noming

NOTE: Voltage output reading at terminals 24 and 25 is linear to position, but not calibrated for a min and max voltage value corresponding to position as the 4-20mA output. The calibration of the DMC-102 and XMA 105 should be checked after connect a device to terminals 24 and 25

- Factory Calibration Steps:**
1. Actuator is in full CLOSED position.
 2. Disconnect BLK motor wire from terminal J1T4.
 3. Connect 12vdc to switch card (+ on 1, - on 2)
 4. Set FB Pot to 0.300V as measured on J1T3 and J1T2 (+)
 5. Reconnect BLK motor wire to J1T4.
 6. Connect 4mA signal input.
 7. On DMC-102, turn ZERO trimmer CW to move AWAY from 0 degrees.
 8. Turn ZERO trimmer CCW to move CLOSER to 0 degrees.
 9. Turn ZERO trimmer slowly towards CCW just until GRN LED stays ON.
 10. 20mA signal input, actuator is fully OPEN.
 11. On DMC-102, turn SPAN trimmer CCW to move AWAY from 90 deg
 12. Turn SPAN trimmer CW to move CLOSER to 90 degrees.
 13. Turn SPAN trimmer slowly towards CW just until RED LED stays ON.
 14. Input 4mA signal to actuator, wait for full CLOSED position.
 15. Touchup ZERO trimmer slowly just until GRN LED stays ON.
 16. Adjust ZERO trimmer on XMA-105 to read 4mA at XMA (-) & (4-20).
 17. Input 20mA signal to the actuator and wait for full OPEN position.
 18. Adjust SPAN trimmer on XMA-105 to read 20mA at XMA (-) & (4-20).
 19. Again input 4mA signal to actuator, wait for full CLOSED position.
 20. Readjust ZERO trimmer on XMA-105 to read 4mA at XMA (-) & (4-20).
 21. Input 12mA signal to actuator, wait for mid-stroke position.
 22. Check XMA-105 to read 12mA at XMA (-) & (4-20).
 23. Return actuator to full CLOSED position before shipping.

Items within dotted line indicates internal components
WIRING DIAGRAM FOR DIRECT ACTING



Actuator ships in fully closed position!

Use For:
P2/3-12PN4-DC (4-20mA in & FB w/ pot voltage)

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