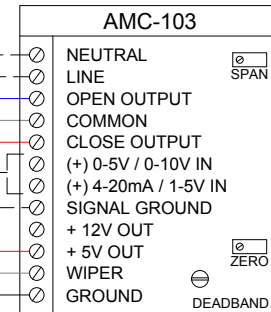


	CLOSE	OPEN
CLS 1-2		
CLS 1-3		
OLS 1-2		
OLS 1-3		
CTS 1-3	CLOSING TORQUE SWITCH INTERRUPTS CONTROLS IF MECHANICAL OVERLOAD OCCURS DURING CLOSING CYCLE	
OTS 1-3	OPENING TORQUE SWITCH INTERRUPTS CONTROLS IF MECHANICAL OVERLOAD OCCURS DURING OPENING CYCLE	

CLS: CLOSE LIMIT SWITCH (250VAC, 6A MAX)  
 OLS: OPEN LIMIT SWITCH (250VAC, 6A MAX)  
 CTS: CLOSE TORQUE SWITCH (250VAC, 6A MAX)  
 OTS: OPEN TORQUE SWITCH (250VAC, 6A MAX)  
 TP: THERMAL PROTECTOR (250VAC, 6A MAX)



--- DENOTES CUSTOMER SUPPLIED ITEM

ACTUATOR SHOWN IN MID POSITION. INCREASING SIGNAL ROTATES COUNTER CLOCKWISE. FOR REVERSE ACTING (SEE NOTES).

**NOTES:**

WHEN CONVERTING A DIRECT ACTING ACTUATOR TO A REVERSE ACTING ACTUATOR, TWO CHANGES IN WIRING MUST BE MADE ON SERVO BOARD:

1-REVERSE THE RED AND BLACK POTENTIOMETER WIRES CONNECTED ON THE SERVO BOARD.

2-REVERSE THE BLUE AND RED MOTOR OUTPUT WIRES CONNECTED ON THE SERVO BOARD.

NOTE: DO NOT REVERSE THE INPUT SIGNAL POLARITY. ALSO, MAKE SURE THAT BOTH WIRING CHANGES ARE MADE - IF ONLY ONE IS MADE, THE ACTUATOR WILL RUN TO EITHER FULL OPEN OR FULL CLOSE.

AFTER THE WIRING CHANGES HAVE BEEN MADE, REFER TO CALIBRATION FOR SETTING THE ZERO AND SPAN.

INPUT SIGNAL RANGE	JP1	JP2
0-5V	■	■
0-10V	■	■
4-20mA	■	■
1-5V	■	■

**FORUM ENERGY TECHNOLOGIES** Valve Solutions ABZ Valves & Controls

Title: **Wiring Diagram**

Parts: ABZ 015 thru ABZ 028 Electric Actuator  
120 VAC Single Phase  
AMC-103 Servo Board

DWG No.	Date	Drawn	Checked	Approved	Revision
WS1528-A2H-X	06-25-12	BC	TP	TH	0