

This is for the Generation 1 models with external XP Jbox

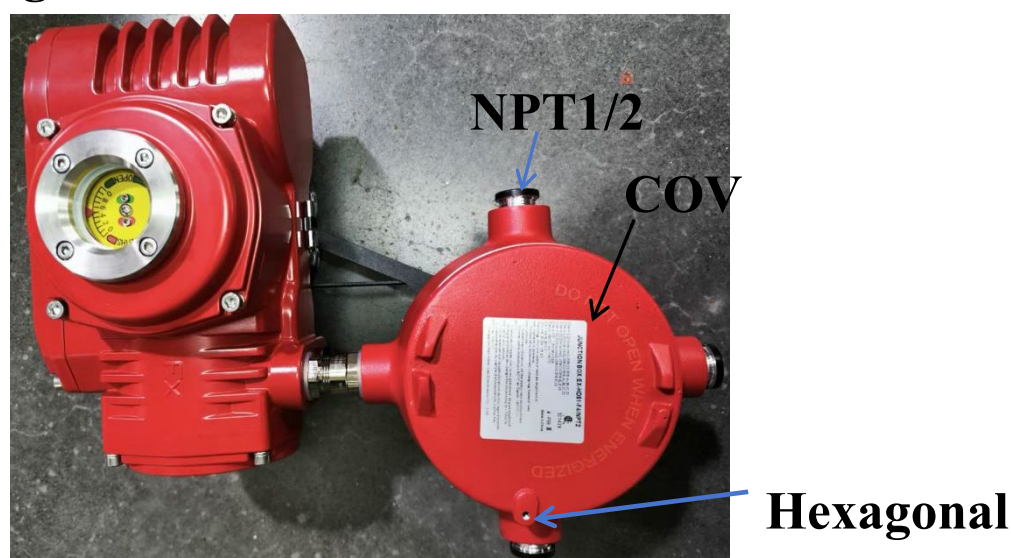
Warning:

※ The charging voltage of FSR is not less than 23VDC and not more than 28VDC. Suggested charging voltage is 24VDC~26VDC.

1. FSR unit installation

1.1 First Use

Users only need to open the FSR end cover, as shown in the figure.






※ First loosen the hexagonal socket screw (M4X4) , then open the cover.

1.2 Connect the battery pack to the control board

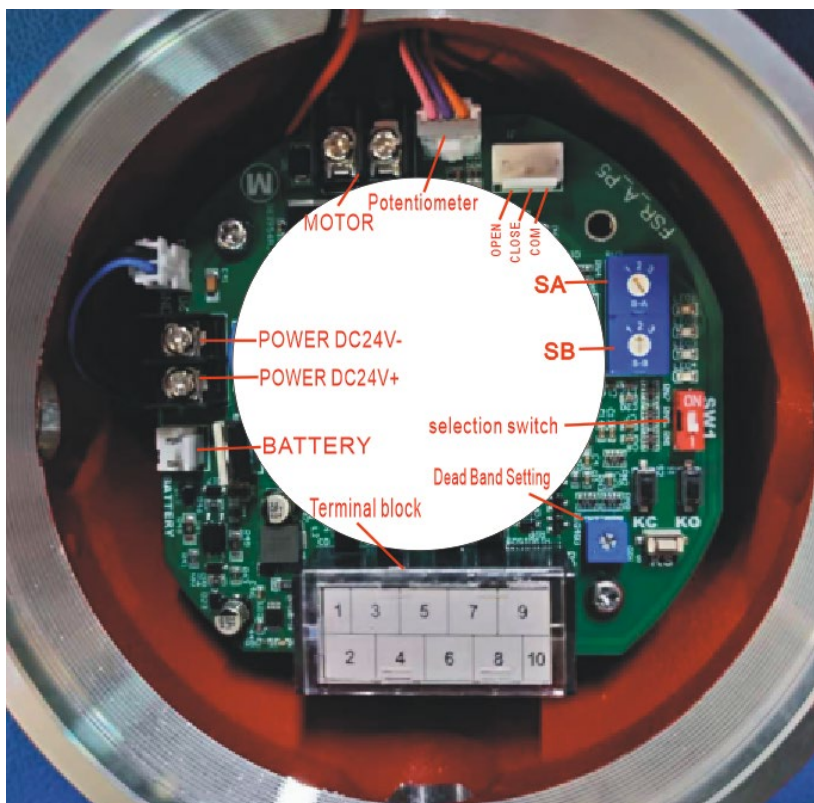
2. Final position setting

2.1 When external power is off, the actuator fail position can be set as below.

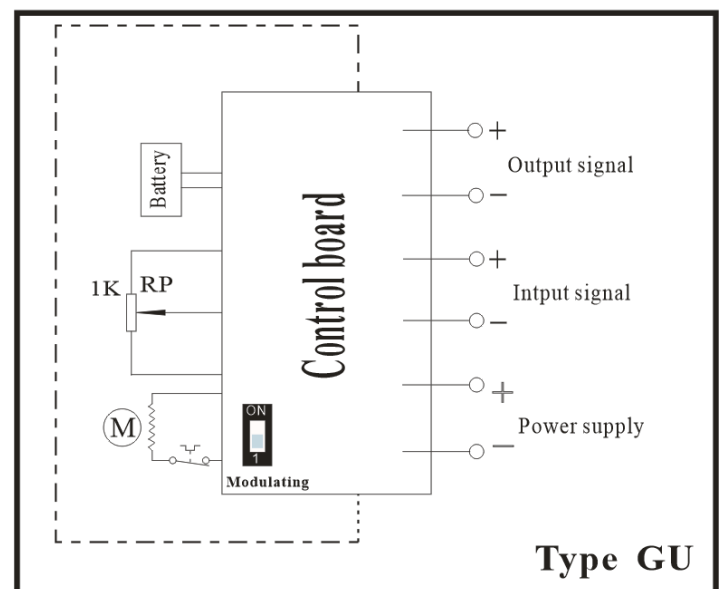
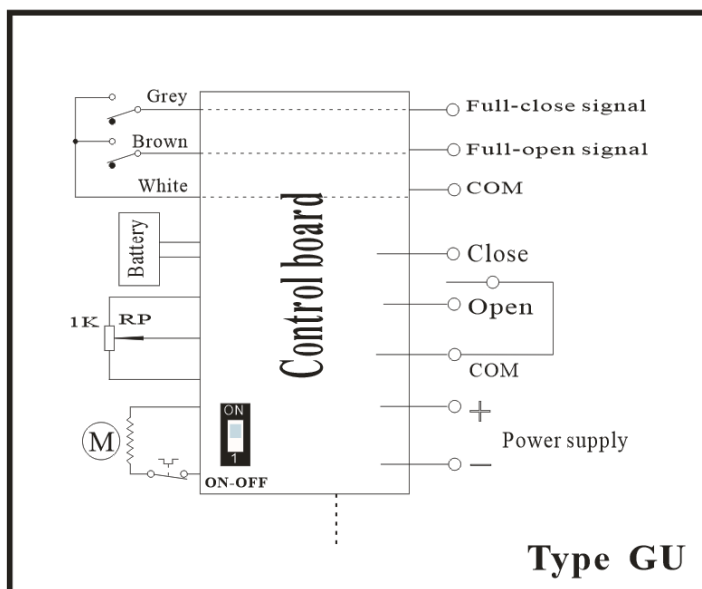
		
SB-1:back to full	SB-2: keep current	SB-3: back to full

※ When SA is 2, the change in SB is effective

3. Introduction of Control Board Functions.



INPUT 4~20mA		ON/OFF INPUT		
-	+	OPEN	CLOSE	COM
1	3	5	7	9
2	4	6	8	10
OUTPUT 4~20mA		ON/OFF OUTPUT		
-	+	OPEN	CLOSE	COM



①Button:

●**KO:** In set condition (the select switch SA = 2), actuator will operate in opening direction when the button is pressed and the motor will stop when the button is released. The actuator is in a demarcating Full-open position when buttons KS and KO are pressed at the same time.

●**KC:** In set condition (the select switch SA = 2), actuator will operate in closing direction when the button is pressed and the motor will stop when the button is released. The actuator is in a demarcating Full-close position when buttons KS and KC are pressed at the same time.

●**KS:** In set condition, actuator will perform specific function when the KS cooperates with KO and KC.

②Select switch:

●**SA :** Select the modes for positive interaction and counteractive of input signal and set state, the corresponding function with the direction of arrow is (A points to 1 at ex-factory):

1—positive interaction 2—set state 3—
counteractive

●**SB:** Select the process mode when input signal lose

efficacy, the corresponding function with the direction of arrow is (A points to 2 at ex-factory):

1—valve is in Full-open position 2—valve is in normal position

3— valve is in Full-close position

③Indicator lamp:



●LED1: Green indicator lamp shows power, the power indicator lamp lights up when connecting terminals DC24- and DC24V+ of control board with power;

●LED2: Red indicator lamp shows malfunction of input signal failure, this lamp lights up when input signal lose efficacy.

●LED3: Red indicator lamp shows malfunction of position inspection circuit, this lamp lights up when the lead of opening potentiometer is open or short or damaged.

●LED4: Red indicator lamp shows malfunction of stickiness, this lamp lights up when actuator is stucked.

FSR Operation Manual for ON-OFF electric actuator

1. Selection switch setting

ON-OFF mode:Select the switch at the position in the

ATTENTION:This instruction doc

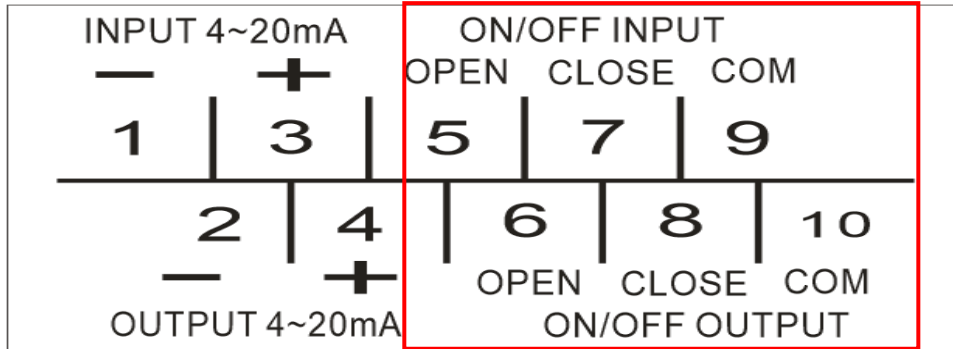
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diagram.

2. Function Description of Wiring Terminals



2.1 OUTPUT:

2.1.1 Terminal com is common terminal as passive contact.

2.1.2 When it is at “close” operation position,terminal close will output the “full-close signal”.At the same time,terminal com and terminal close are connected.

2.1.3 When it is at “open” operation position,terminal open will output the “full-open signal”.At the same time,terminal com and terminal open are connected.

2.2 INPUT:

External control of opening and closing of actuator.

2.2.1 The connection between terminal com and terminal close is for the operation of “close”

2.2.2 The connection between terminal com and terminal open is for the operation of “open”

FSR Operation Manual for Modulating electric actuator

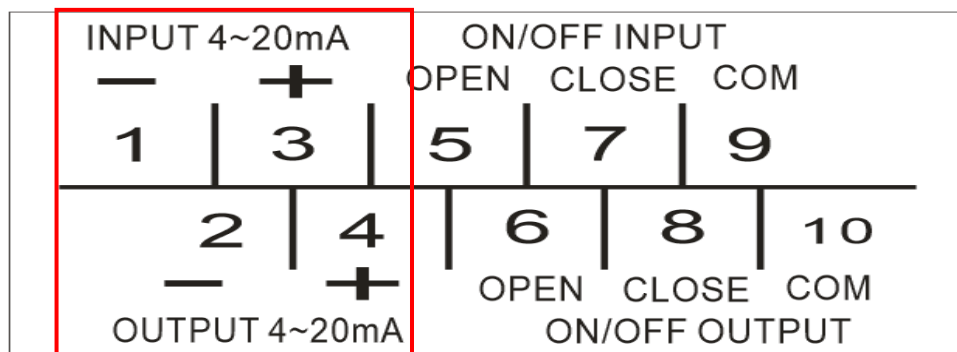
1. Selection switch setting

Modulating mode:Select the switch at the position in the diagram.



2. INPUT and OUTPUT

After the external DC24V power supply is connected, input 4-20mA signal to control the operation of the electric actuator until specified. Simultaneously, it will output 4~20mA position feedback signal. Wiring terminals as shown in the diagram.



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