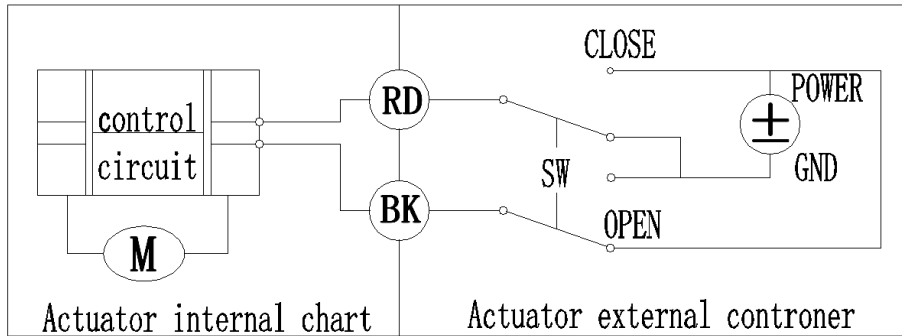


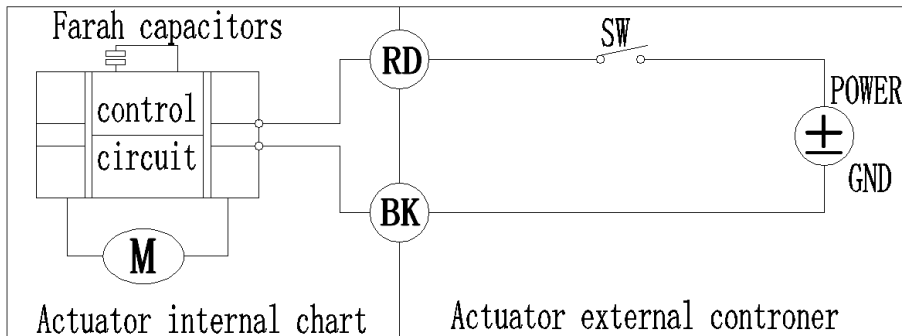
Wiring diagram

CR2 01 Wiring Diagram (2 wires control)



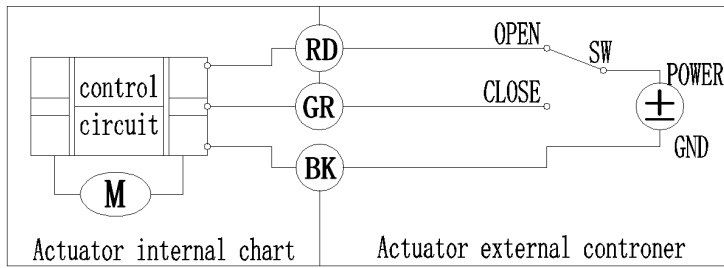
- RD connect with positive, the BK connect with negative, the valve closed, the actuator automatically power off after in place , the valve remains fully closed position .
- BK connect with positive, the RD connect with negative, the valve open, the actuator automatically power off after in place, the valve remains fully open position .
- * Suitable Working Voltage: DC5V/DC12V/DC24V
- * Exceeding the working voltage is forbidden

CR2 02 Wiring Diagram (2 wires control – Power Reset)



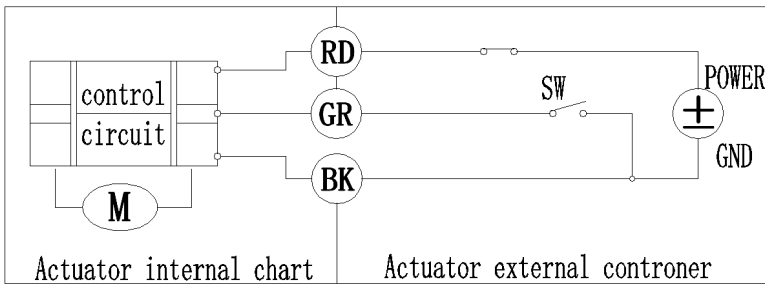
- When SW is closed , the valve open. the actuator automatically power off after in place
- When SW is open, the valve closed, the actuator automatically power off after in place
- * Suitable Working Voltage: AC/DC9–24V, DC/AC110V–230V
- * Exceeding the working voltage is forbidden

CR3 01 Wiring Diagram (3 wires control)



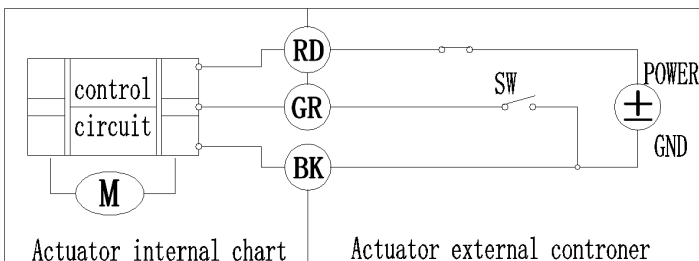
- RD & GR connect with positive, BK connect with negative
- When OPEN(RD) & SW connected , the valve open, the actuator automatically power off after in place , valve remains fully open position
- When CLOSE(GR) & SW connected, the valve closed, the actuator automatically power off after in place, valve remains fully closed position.
- * Suitable Working Voltage: DC5V/DC12V/DC24V
- * Exceeding the working voltage is forbidden

CR3 02 Wiring Diagram (3 wires control)



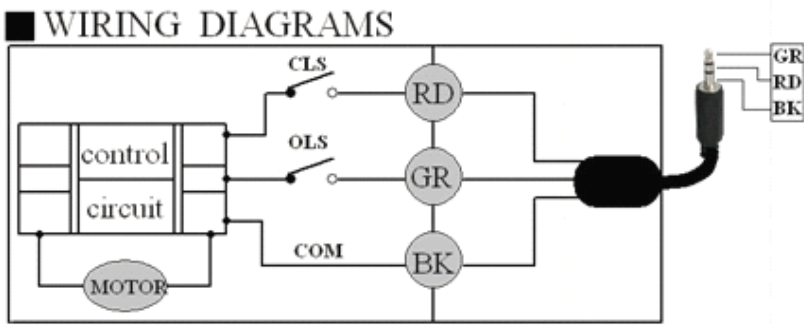
- RD connect with positive, the BK & GR connect with negative
- SW CLOSED, the valve CLOSED, the actuator automatically power off after in place.
- SW OPEN, the valve OPEN, the actuator automatically power off after in place.
- * Suitable Working Voltage: DC5V/DC12V/DC24V
- * Exceeding the working voltage is forbidden

CR3 03 Wiring Diagram (3 wires control)



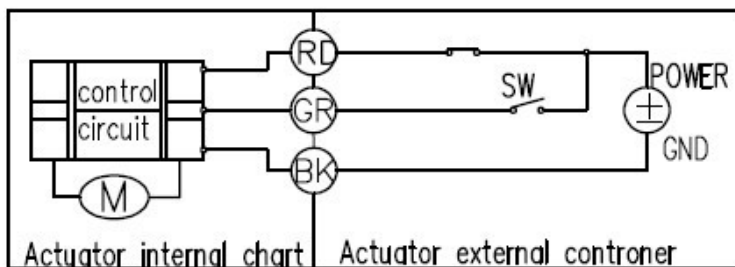
- RD connect with positive, the BK & GR connect with negative
- SW CLOSED, the valve CLOSED, the actuator automatically power off after in place
- SW OPEN, the valve OPEN, the actuator automatically power off after in place.
- * Suitable Working Voltage: DC5V/DC12V/DC24V
- * Exceeding the working voltage is forbidden

CR3 04 Wiring Diagram (3 wires control)



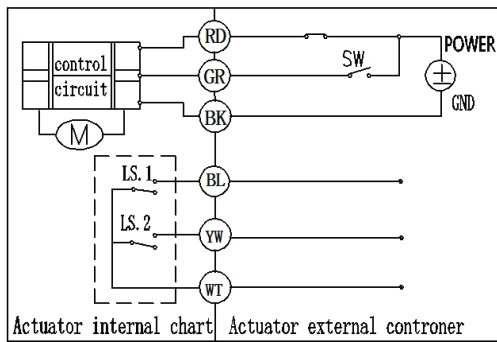
- RD & GR connected with positive, and the BK connected with negative
- When RD & SW connected, the valve closed, the actuator automatically power off after in place , remains fully closed position
- When GR & SW connected, the valve open, the actuator automatically power off after in place , remains fully open position.
- * Suitable Working Voltage: DC5V/DC12V/DC24V
- * Exceeding the working voltage is forbidden

CR3 05 Wiring Diagram (3 wires control)



- RD connect with positive, GR connect with SW & positive
- BK connect with negative
- When the SW of GR closed, the valve closed, the actuator automatically power off after in place , remains fully closed position
- When the SW of GR open, the valve open, the actuator automatically power off after in place , remains fully open position.
- * Suitable Working Voltage: DC5V/DC12V/DC24V
- * Exceeding the working voltage is forbidden

CR6 01 Wiring Diagram (6 wires control with feedback signal)



1. When RD connect with positive, the BK connect with negative, the valve OPEN, the actuator automatically power off after the valve fully open, LS.1 closed and outputting, sending the fully open signal.

2. When BK connect with positive, the RD connect with negative, the valve CLOSD, the actuator automatically power off after the valve fully closed, LS.1 closed and outputting, sending the fully closed signal.

3. BL connect with the valve's fully open signal wire

4. YW connect with the valve's fully closed signal wire

* Suitable Working Voltage: DC5V/DC12V/DC24V

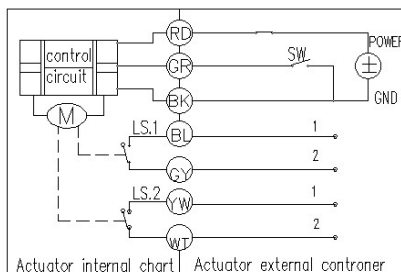
* Forbid operating if exceed the working voltage

※ Feedback with load ability:

① The Max. off voltage: DC36V AC220V

② The Max. off current: $\leq 0.4A$

CR7 01 Wiring Diagram (7 wires control with feedback signal – automatically power-off when using manual override)



---RD connect with positive

---GR connect with SW and negative wiring

--- BK connect with negative wiring

---BL1 & GY2 connect with the valve's fully open signal wiring

--- YW1 & WT2 connect with the valve's fully closed signal wiring.

---SW open. the valve open, and keeping fully open. LS.1 outputting, BL1 & GY2 connected .

---SW closed. the valve closed, and keeping fully closed. LS.2 outputting, YW1 & WT2 connected

* Suitable Working Voltage: DC7V-35V(wide input range voltage, automatically power-off when using manual override)

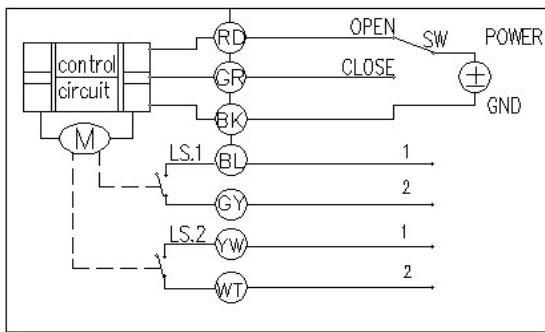
* Exceeding the working voltage is forbidden

※ Feedback with load ability:

① The Max. off voltage: DC36V AC220V

② The Max. off current: $\leq 0.4A$

CR7 02 Wiring Diagram (7 wires control with feedback signal)



1. RD & GR connect with positive, the BK connect with negative
 2. When RD & SW connected, the valve open, the actuator automatically power off after the valve fully open, LS.1 outputting, BL1 & GY2 connected .
 3. When GR & SW connected, the valve closed, the actuator automatically power off after the valve fully closed, LS.1 outputting, YW1 & WT2 connected
 4. BL1 & GY2 connect with the valve's fully open signal wiring
 5. YW1 & WT2 connect with the valve's fully closed signal wiring
- * Suitable Working Voltage: DC5V/DC12V/DC24V
* Exceeding the working voltage is forbidden
- ※ Feedback with load ability:
- ① The Max. off voltage: DC36V AC220V
 - ② The Max. off current: $\cong 0.4A$

Manual override instructions:



In case of an electric supply failure, it is possible to operate the actuator manually:

1. Power must in off position when start the manual override.
2. Gently pull up the knob about 3mm, then revolve the knob around left and right to control the valve open or close.
3. When the red needle in the indicator pointing to S, means the valve is closed. When pointing to O, means the valve is open.
4. After finish the manual override operation, must press down the knob, so that for the normal electric operation.

