LRX, NRX, ARX, AKRX Actuators with Electronic Pressure Independent Valves (ePIV)

WIRING DIAGRAM

2 to 10 VDC control signal for Non-Spring Return and Electronic Fail-Safe

24 VAC/DC Transformer

Line Volts

Control Signal 2 to 10 VDC

2 to 10 VDC Flow Feedback Signal (+)

Blk (1) Common
Red (2) + Hot
Wht (3) Y Input 2 to 10 VDC
Org (5) U Output 2 to 10 VDC

24 VAC Transformer

Line Volts

Control Signal 4 to 20 mA or 2 to 10 VDC

Blk (1) Common
Red (2) + Hot
Wht (3) Y Input, 2 to 10 VDC
Org (5) U Output, 2 to 10 VDC

2 to 10 VDC control signal for Non-Spring Return and Electronic Fail-Safe

24 VAC/DC Transformer

Line Volts

MP

Blk (1) Common
Red (2) Hot
Org (5) U Output

24 VAC Transformer

Line Volts

Position Feedback VDC (+)

Org (5) U Output

Floating Control Signal

Provide overload protection and disconnect as required.

CAUTION Equipment damage!

Actuators may be connected in parallel.

Power consumption and input impedance must be observed.

IN4004 or IN4007 diode required.

Meets UL requirements without the need of an electrical ground connection.

BLK
Black
Negro
Noir
Preto

RED
Red
Rojo
Rouge
Vermelho

WHT
White
Blanco
Bleu
Branco

ORG
Orange
Anaranjado
Orange
Alaranjado

Provide overload protection and disconnect as required.

CAUTION Equipment damage!

Actuators may be connected in parallel.

Power consumption and input impedance must be observed.

IN4004 or IN4007 diode required.

Meets UL requirements without the need of an electrical ground connection.
INSTRUCTION MANUAL

LRX, NRX, ARX Modbus Actuators with Electronic Pressure Independent Valves (ePIV)

WIRING DIAGRAM

Modbus Actuators - LRX, NRX, ARX

24 VAC/DC Transformer

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<td>D-</td>
</tr>
<tr>
<td>Gry (7)</td>
<td>D+</td>
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Modbus & BACnet control for Non-Spring Return

Note:
Modbus signal assignment:
C1 = D- = A
C2 = D+ = B
Power supply and communication are not galvanically isolated.
Interconnect ground signal of the devices.

24 VAC/DC Transformer

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Modbus & BACnet control with switching contact for Non-Spring Return

Requirements for switching contact:
The switching contact must be able to accurately switch a current of 16 mA at 24 V.

24 VAC Transformer

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Modbus & BACnet control with active sensor for Non-Spring Return

Possible input voltage range:
0...32 V (resolution 30 mV)

Modbus & BACnet control with local override (AC only, analog override) for Non-Spring Return

Note:
If no sensor is integrated, then connection 3 (Y) is available for the protective circuit of a local override control. Options: CLOSED, Vmax, OPEN

BLK  RED  WHT  ORG  PNK  GRY
Black  Red  White  Orange  Pink  Gray
Negro  Rojo  Blanco  Anaranjado  Rosado  Gris
Noir  Rouge  Blanch  Naranja  Rosa  Cinza
Preto  Vermelho  Branco  Alaranjado  Cor-de res  Cinza

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