WIRING DIAGRAM

LRX, NRX, ARX, AKRX

24 VAC/DC Transformer

<table>
<thead>
<tr>
<th>Line Volts</th>
<th>Blk (1) Common</th>
<th>Red (2) + Hot</th>
<th>Wht (3) Y Input 2 to 10 VDC</th>
<th>Org (5) U Output 2 to 10 VDC</th>
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2 to 10 VDC control signal for Non-Spring Return and Electronic Fail-Safe

4 to 20 mA control signal for Non-Spring Return and Electronic Fail-Safe

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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
- Blanc
- Branco

ORG
- Orange
- Anaranjado

Position Feedback VDC (+)
LRX, NRX, ARX Modbus Actuators with Electronic Pressure Independent Valves (ePIV)

Modbus control for Non-Spring Return

Note:
Modbus signal assignment:
\[ C_1 = D^- = A \]
\[ C_2 = D^+ = B \]
Power supply and communication are not galvanically isolated.
Interconnect ground signal of the devices.

Modbus 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.

Modbus control with active sensor for Non-Spring Return

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

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

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### MODBUS ACTUATORS - LRX, NRX, ARX

#### 24 VAC/DC Transformer

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<td></td>
<td>MFT</td>
</tr>
<tr>
<td></td>
<td>Pnk (6)</td>
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<tr>
<td></td>
<td>Gry (7)</td>
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#### Modbus signal assignment:
\[ C_1 = D^- = A \]
\[ C_2 = D^+ = B \]

#### Modbus 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.

#### Modbus control with local override (AC only, analogue 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

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### COLOR CODE

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