RESISTOR KIT FOR ML7984 VALVE ACTUATOR

Application

The 5 resistors included in this kit are used with the ML7984 Valve Actuators. The resistor allows single controller to operate up to 4 motors in unison. Also it provides conversion interface for the ML7984 to replace the old ML784 in 4-20 mA multiple actuators applications.

Installation

WHEN INSTALLING THIS PRODUCT........
1. Read the instructions carefully. Failure to follow them could damage the product or cause hazardous condition.
2. Check the product application to make sure the product is suitable for the job.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in the ML7984 instructions.

Wiring and Set up

⚠️ CAUTION:
1. Disconnect power supply before beginning installation to prevent electrical shock and equipment damage.
2. All wiring must comply with applicable local electrical codes, ordinances and regulations.
3. DO NOT electrically operate the ML7984 before assembly to the valve because damage not apparent to the installer may occur.

1. Refer to the appropriate Application Diagram.
2. Select correct resistor(s) from the kit as indicated in the wiring diagram.
3. Connect resistor(s) as shown and make sure connections are tight.
4. Set configuration DIP switches according to the wiring diagram (DIP switches located beside the terminal block).

Checkout

Operate the system for at least one complete cycle. Make sure that all actuators operate properly. Refer to the checkout procedure in the ML7984 instruction sheet.
Allow 0.5 amps maximum for each device.

Do not mix M984/6 or Modutrol Motors with the ML7984 in the same circuitry.

Use configuration DIP switches to select device functions: Direct acting function (actuator stem moves upwards with signal increases) or Reverse acting function (actuator stem moves downwards with signal increases).

Use Resistor Kit part # 272822

Configuration DIP switches located adjacent to the input terminal block

RESISTOR SELECTION CHART

<table>
<thead>
<tr>
<th>NO. OF ACTUATORS</th>
<th>RESISTOR VALUE</th>
<th>RESISTOR NOT REQ'D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>133 OHM</td>
<td>68.1 OHM</td>
</tr>
<tr>
<td>2</td>
<td>45.3 OHM</td>
<td>133 OHM</td>
</tr>
</tbody>
</table>

* Series 90 (mech/electronic) operation can be reversed without changing wiring by using DIP switch #3 (opposite as shown).

NOTE: 1.) Turn power off before setting the DIP switches.
2.) For common transformer + common controller application, please consult the factory

Fig. 1 Wiring for Single Series 90 (135 Ohm Slide Wire) signal input ML7984 actuators
Fig. 2 Wiring for replacing the MASTER motor in 4-20 mA multiple-actuator application.

Fig. 3 Wiring for replacing the SLAVE motor in 4-20 mA multiple-actuator application.