Series 54 Rotary Limit Switches

Limit the travel of electrically operated doors, conveyors, hoists, machine tool work tables and similar devices. Equipment having rotating mechanisms, or linear motion which can be translated into rotational motion, can be controlled by these versatile switches. Series 54 switches can be mounted in any position and are easy to wire and adjust.

Switches Feature
- Four Gear Ratios
- Standard, Long Dwell or Fine Adjustment Cams
- Right or Left Hand Shaft
- Easy to Wire and Adjust
- Mount in Any Position
- Rugged Die-cast Aluminum Housing
- Available for NEMA 1, NEMA 4, and NEMA 12 Applications
- Multi-use Shaft - Attach Drive Sprocket using Woodruff Key, Pin or Setscrew
- Industrial duty S.P.D.T. or D.P.D.T. snap switches are UL recognized and CSA listed

Application
Series 54 switches are designed to serve as pilot controls for magnetic reversing starters and contactors which in turn make and break full voltage between line and load. Contacts in the switch are operated when the external shaft is rotated. For the switch to perform a pilot control function, the contacts must be wired in series with the coil circuit of a magnetic reversing starter or contactor.

The shaft may rotate in either direction. When tripped, if rotation direction is reversed, the contacts will reset in 1/4 to 1 1/2 turns, depending on shaft-to-cam ratio. Switches with Long Dwell Cams are available. These cams provide for the contacts to be actuated for a longer period of time as might be required in hoist or similar applications.

Fine adjustment cams are also available. This feature increases accuracy in setting the number of turns to cause the contact to operate.

MODELS—Series 54
Model numbers are for RIGHT HAND SHAFT. For left hand shaft add L to model number.

<table>
<thead>
<tr>
<th>Gear Ratio</th>
<th>Turns of Drive Shaft to Trip Contacts</th>
<th>Contact Blocks</th>
<th>Circuits</th>
<th>NEMA 1 &amp; 12 Industrial Use Model No.</th>
<th>NEMA 4 Watertightse Model No.</th>
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<tbody>
<tr>
<td></td>
<td>Max.</td>
<td>Min.</td>
<td>Overtravel</td>
<td>Reset</td>
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<td>Standard Cams</td>
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<td>16</td>
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<td>32</td>
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<td>3.5</td>
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<td>72 to 1</td>
<td>64</td>
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<td>7.5</td>
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<td>108 to 1</td>
<td>96</td>
<td>2</td>
<td>11</td>
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<td>Long Dwell Cams</td>
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<td>2</td>
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</table>

Field Modifications

Contact Block Kit (1 NO 1 NC) Cat. No.
- Standard Cam: 54BBGGB
- Long Dwell Cam: 54EBGGB

Contact Block Kit (2 NO 2 NC) Cat. No.
- Standard Cam: 54BBGD
- Long Dwell Cam: 54EBGD

Accessories Cat. No.
- Standard Cam: 54BBGD
- Long Dwell Cam: 54EBGD
- Adjustment Tool: D2776001

Contact Block Specifications
- 15 Amp, 120, 240, 480 or 600 VAC.
- 1/2 H.P. 120 VAC, 1.0 H.P. 240 VAC.
- 0.8 Amp 115 VDC, 0.4 Amp 230 VDC.
- Pilot Duty 600 VAC Max.

Kits include switch block, cam and mounting hardware

Dimensions—Inches (mm)

Approximate Shipping Weight 6 lbs (2.7 kg)

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