Nano Roll
Installation Instructions

24VDC - SDN

INSTALLERS: Please leave this manual with the owner.

Screen Innovations
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PART NO. 400030
**PARTS LIST - NANO ROLL - 24VDC - SDN**

**Shades**
- 275 Roll
- 375 Roll
- 475 Roll

**Terminal Blocks**

**Wall Brackets (275) + End Caps**

**Wall Brackets (375 / 475) + End Caps**

**Screws included** (3 per bracket)

**Leveling Shims** (optional)

**Spacer Blocks** (optional)
**ADDITIONAL ACCESSORIES**

<table>
<thead>
<tr>
<th>Tool</th>
<th>Specifications</th>
<th>Included With</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16” Magnetic Driver</td>
<td>Set Screw Hex Tool (1/16”)</td>
<td>375 / 475 series only</td>
</tr>
<tr>
<td>1/4” Magnetic Driver</td>
<td></td>
<td>275 series only</td>
</tr>
</tbody>
</table>

Note: For more information about these tools and their use, please call Tech Support at 512.832.6939 Opt. 1

**SPACER BLOCKS AND LEVELING SHIMS (OPTIONAL)**

**Spacer Blocks** - used to clear an obstruction in the fabric path.

Connect spacer blocks to shade brackets before installation.

Note: Do not use more than 4 spacer blocks per bracket.

**Leveling Shims** - used if the window frame is out of level.

Connect to shade brackets before installation.

Note: Do not use more than 2 leveling shims per bracket.
Before installing the shades, verify whether the shade was ordered as standard roll or reverse roll. Though illustrations in this manual show standard roll shades, the installation for reverse roll shades is the same.

1. Terminate pre-wire with terminal block

2. Install wall bracket/end cap assembly with the supplied screws

3. Measure bracket to bracket width and verify it matches the ordered width. Adjust accordingly.

4. Remove idler end cap with flat screwdriver

Brackets must be level before the shade is installed!
5. Connect shade and pre-wire connectors, snap into bracket

6. Insert motor side completely. Then, while supporting motor side, put idler end cap over the idler and snap into place.

When installing, the shade should be at the upper limit.

There will be an audible click.
1. Terminate pre-wire with terminal block

2. If mounting to a wall, remove the ceiling flange from motor and idler brackets

3. Install wall bracket/end cap assembly with the supplied screws

4. Measure bracket to bracket width and verify it matches the ordered width. Adjust accordingly.

Brackets must be level before the shade is installed!
5. Remove both end caps

- Motor End cap
- Idler End cap

6. Connect shade and pre-wire, snap connector into spring clip.

7. Align and insert the motor side.
8. Make sure the motor head bracket is fully seated. Secure with cotter pin.

9. Put idler end cap over idler and snap into place. There will be an audible click.
**INSTALLATION - 24 VDC - SDN (375 / 475 SERIES)**

10. Replace and fasten motor end cap

**PROGRAMMING SDN**

SDN shades are programmed using the Screen Innovations SIFI via the web interface. This programming can be done with a Windows or Mac computer either over LAN or wired directly to SIFI. The following instructions are for a Windows computer, but the steps for programming on a Mac are very similar. For a complete guide to program SIFI on a Mac, please visit our website.

Before attempting to program any motors with SIFI, verify that the firmware is up to date. To adjust the lower limit of an SDN shade, follow the steps below.

Connect SIFI as shown below.

1. Launch Windows File Explorer
2. Click on the “Network” tab
3. Double click on the SIFI, the default web browser will launch
4. At the landing page, click the three lines in the top right corner, then click “Settings”
5. Select the “SDN” tab on the top left
6. Press the spyglass to auto discover motors on the SDN network (may have to press it more than once)
7. Click on the motor you want to program
8. Name the motor
9. Right click on the down limit count
10. Move the shade up or down using the buttons in the popup window
11. Click in the open space to the right to confirm the limit
12. Operate the shade up and then back down to verify the position of the limit

**SDN Wiring Pinout**

<table>
<thead>
<tr>
<th>Pin #</th>
<th>Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Orange White</td>
<td>SDN RS485 (+)</td>
</tr>
<tr>
<td>2</td>
<td>Orange</td>
<td>SDN RS485 (-)</td>
</tr>
<tr>
<td>3</td>
<td>Green White</td>
<td>Reserved</td>
</tr>
<tr>
<td>4</td>
<td>Blue</td>
<td>Power 24v DC</td>
</tr>
<tr>
<td>5</td>
<td>Blue White</td>
<td>Power 24v DC</td>
</tr>
<tr>
<td>6</td>
<td>Green</td>
<td>Reserved</td>
</tr>
<tr>
<td>7</td>
<td>Brown White</td>
<td>SDN RS485 Ground</td>
</tr>
<tr>
<td>8</td>
<td>Brown</td>
<td>SDN RS485 Ground</td>
</tr>
</tbody>
</table>

*Stub length must not exceed 200’*
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Action to Take</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shade won’t operate.</td>
<td>Motor is not powered.</td>
<td>Ensure that 24V hardwired motors have at least 20VDC and that the polarity is correct.</td>
</tr>
<tr>
<td>Incorrect or poor cable</td>
<td></td>
<td>Check the wire pinouts and termination. Look for broken, loose, or damaged wires. Reterminate if necessary.</td>
</tr>
<tr>
<td>termination.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIFI is not powered.</td>
<td></td>
<td>Check that the green LED on SIFI is flashing. If not, make sure power is available via the bus power supply or PoE (with expansion card only).</td>
</tr>
<tr>
<td>SIFI is not on the local network.</td>
<td></td>
<td>Use the service keypad (if available) to validate the SDN network and motors are operating properly before troubleshooting SIFI network problems. Check that the SIFI is communicating on the local network. Ping the device via the windows command prompt, or make sure the device shows up in the network tab of the Windows File Explorer.</td>
</tr>
</tbody>
</table>

Technical Support: 512.832.6939
Hours of Support: 7:30am - 5pm CST
screeninnovations.com
support@screeninnovations.com