The CONEX-SAG-LSxx is a fast piezo motor linear stage integrated with an open-loop piezo motor controller/driver. For out-of-the-box control, the CONEX-SAG controller is preconfigured and delivered with a Super Agilis SAG-LSxx linear stage. The CONEX-SAG is a very compact and inexpensive single axis motion controller/driver. The controller comes with the familiar CONEX GUI, simple and intuitive to use and conveniently accessible via USB, which also supplies power to the controller. The linear stages of the CONEX-SAG-LSxx is based on the Super Agilis SAG-LSxx linear stages, which have a very small footprint while delivering sub-micron precision motion. Like the controller, the linear stages are very compact with a low profile, 12 mm, but are capable of 16, 32 and 48 mm travel, and 100 nm MIM. The stages are also designed to easily stack as XY stage, without requiring an adapter plate, resulting in only 24 mm height.

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>16</th>
<th>32</th>
<th>48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Range (mm)</td>
<td>16</td>
<td>32</td>
<td>48</td>
</tr>
<tr>
<td>Maximum Speed (mm/s)</td>
<td>&gt;10</td>
<td>&gt;10</td>
<td>&gt;10</td>
</tr>
<tr>
<td>Material</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Centered Load Capacity (N)</td>
<td>20</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Axial/Vertical Load Capacity (N)</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Holding Force (N)</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Minimum Incremental Motion (nm)</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Cable Length (m)</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Limit Switches</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>10 to 35</td>
<td>10 to 35</td>
<td>10 to 35</td>
</tr>
<tr>
<td>Weight, Without Cable (g)</td>
<td>65</td>
<td>93</td>
<td>127</td>
</tr>
</tbody>
</table>

### Key Features

- Fast: >10 mm/s
- Compact size
- Only 24 mm height for XY stack
- Easy to stack
- Stainless steel parts
- Integrated and easy to setup
- Easy to use GUI
- USB Plug-and-play communication: Optional RS-232 and RS-485
Super Agilis Series with Open-Loop Piezo Motor Controller/Driver

Dimensions

**SAG-LS16 Stage**

- 2 HOLES ø .11 (2.9), C'BORED ø .20 (5)
  - AT .12 (3) OF THE TOP SIDE
  - PUSH THE CARRIAGE FOR ACCESS
- 2 HOLES ø .20 (5)
  - AT .20 (5) OF THE BOTTOM SIDE
- 2 HOLES ø .20 (5)
  - AT .20 (5) OF THE BOTTOM SIDE
  - PUSH THE CARRIAGE FOR ACCESS

**SAG-LS32 Stage**

- 2 HOLES ø .11 (2.9), C'BORED ø .20 (5)
  - AT .12 (3) OF THE TOP SIDE
  - PUSH THE CARRIAGE FOR ACCESS
- 2 HOLES ø .20 (5)
  - AT .20 (5) OF THE BOTTOM SIDE
- 2 HOLES ø .20 (5)
  - AT .20 (5) OF THE BOTTOM SIDE
  - PUSH THE CARRIAGE FOR ACCESS

**SAG-LS48 Stage**

- 2 HOLES ø .11 (2.9), C'BORED ø .20 (5)
  - AT .12 (3) OF THE TOP SIDE
  - PUSH THE CARRIAGE FOR ACCESS
- 2 HOLES ø .20 (5)
  - AT .20 (5) OF THE BOTTOM SIDE
- 2 HOLES ø .20 (5)
  - AT .20 (5) OF THE BOTTOM SIDE
  - PUSH THE CARRIAGE FOR ACCESS

Ordering Information

**Stages**

- 16 mm Travel Stage & CONEX-SAG Controller: CONEX-SAG-LS16
- 32 mm Travel Stage & CONEX-SAG Controller: CONEX-SAG-LS32
- 48 mm Travel Stage & CONEX-SAG Controller: CONEX-SAG-LS48

**Accessories**

- Base Plate, Mounts Multiple CONEX Controllers: CONEX-BP