**Product Description**

The SX8 Rackmount Optical Switch are customizable benchtop/rackmount instruments ideal for high-volume manufacturing production testing. Available in single-mode or multi-mode, the switch configurations range from 1x2 up to 1x360. Optional 2x1 or 4x1 built-in switches can provide additional common inputs. The switch may be controlled through remote interface (GPIB, RS232, or USB*) or locally via the user-friendly front panel keypad and display.

A variety of configuration options offers additional flexibility. The front panel bulkheads may be fit with typical FC, SC, LC connector types or customizable configurations available. Switches with up to 48 bulkhead channels for FC (64 channels for LC and SC) are available in a 3U chassis or 100 pigtail. Larger count switches move to a 6U chassis.

*USB interface via-USB-DB9 adapter

**Ordering Scheme**

1 - Configuration Options

**KEY FEATURES**
- Low IL of 0.7 dB
- Up to 360 outputs
- Many configuration possibilities
- User Friendly

**APPLICATIONS**
- High-volume production testing
- Multiple device testing
- R&D applications
- System compliance testing

**COMPLIANCE**
- UL/CSA 61010
- IEC 61010
- FCC Part 15 (Class A)
- EN 61326 (Class A)

**IN THE BOX**
- SX8 Switch
- AC power cord
- Test Report

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**SX8-**

**2A x N**

**2B x N**

**2C x N**

**1A x N**

**2A Configuration - Single input, switched to any output**

**2B Configuration - Two switchable inputs, switched to any output**

**2C Configuration - Two inputs switched to synchronized outputs**

**FIBER TYPE**
- 01 9/125 µm
- 50 50/125 µm
- 67 62/125 µm
- 100 50/125 µm
- 200 200/225 µm
- 300 300/325 µm

**CONNECTOR TYPE**
- FC/UPC
- FC/APC
- SC/UPC
- SC/APC
- LC/UPC
- LC/APC

**PIGTAIL LENGTH**
- 01 50 µm
- 02 70 µm
- 03 100 µm
- 04 20 m
- 05 30 m
- 06 50 m

**PIGTAIL POSITION**
- 00 front option only

**开关配置**
- 单输入, 任选输出
- 双输入, 任选输出, 同步输出
- 双输入, 紧密输出

**配置选项**
- 1A x N
- 2A x N
- 2B x N
- 2C x N

**配置图**

- 1A x N
- 2A x N
- 2B x N
- 2C x N

**配置表**

- 配置选项
- 输出端口
- 光纤类型
- 连接器类型
- 猴尾长度
- 安装位置

**SX8-**

- 1A x N
- 2A x N
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**配置图**

- 配置选项
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## Optical/Electrical Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Parameter</strong></td>
<td><strong>Specification</strong></td>
</tr>
<tr>
<td>Wavelength Range (nm)</td>
<td>Single-mode</td>
</tr>
<tr>
<td></td>
<td>1250 - 1670</td>
</tr>
<tr>
<td></td>
<td>Multimode</td>
</tr>
<tr>
<td></td>
<td>840 - 1350</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>0.7</td>
</tr>
<tr>
<td>Backreflection (dB)</td>
<td>≤ -60</td>
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<tr>
<td></td>
<td>≤ -40</td>
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<tr>
<td>PDL (dB)</td>
<td>0.05</td>
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<tr>
<td></td>
<td>N/A</td>
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<tr>
<td>Repeatability (random switching) (dB)</td>
<td>± 0.025</td>
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<tr>
<td>Repeatability (sequential) (dB)</td>
<td>± 0.005</td>
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<tr>
<td>Crosstalk (maximum) (dB)</td>
<td>-80</td>
</tr>
<tr>
<td>Maximum Input Power (mW)</td>
<td>300</td>
</tr>
<tr>
<td>Switching Time (ms)</td>
<td>300</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>100 - 240 V AC, 50 - 60 Hz</td>
</tr>
<tr>
<td>Power Consumption (VA)</td>
<td>150 maximum</td>
</tr>
<tr>
<td>Control</td>
<td>Front Panel / GPIB / RS232 / USB</td>
</tr>
<tr>
<td>Switch Life</td>
<td>10²² cycles</td>
</tr>
</tbody>
</table>

### Notes:
1. Excluding connectors.
2. USB interface via USB-DB9 adapter.

## Mechanical/Environmental Specifications

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Parameter</strong></td>
<td><strong>Specification</strong></td>
</tr>
<tr>
<td>3U Unit Dimensions W x H x D (cm)</td>
<td>48 x 13.5 x 37.5</td>
</tr>
<tr>
<td>6U Unit Dimensions W x H x D (cm)</td>
<td>48 x 27 x 37.5</td>
</tr>
<tr>
<td>3U Shipping Box Dimensions W x H x D (cm)</td>
<td>53 x 32 x 57</td>
</tr>
<tr>
<td>6U Shipping Box Dimensions W x H x D (cm)</td>
<td>53 x 55 x 55</td>
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<tr>
<td>Unit Weight (kg)</td>
<td>14 (depending on configuration)</td>
</tr>
<tr>
<td>Total Shipment Weight (kg)</td>
<td>15 (depending on configuration)</td>
</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>0 to 55</td>
</tr>
<tr>
<td>Storage Temperature (°C)</td>
<td>-40 to 70</td>
</tr>
<tr>
<td>Humidity (Non-condensing) (°C)</td>
<td>Maximum 95% RH from 0 to 40</td>
</tr>
</tbody>
</table>