SX4 Benchtop Optical Switch

Product Description
The SX4 Benchtop Optical Switch are benchtop instruments ideal for manufacturing production testing. A variety of front panel configurations including 1x2 up to 1x24 are available. The SX4 offers low insertion loss and excellent repeatability, with the advantage of ease of use and portability.

The switch is controlled via remote interface (GPIB, RS232, or USB*) or locally via the user-friendly front panel keypad and display. For additional flexibility, the front panel bulkheads may be fitted with typical FC, SC, LC connector types or customizable configurations available.

*USB interface via-USB-DB9 adapter

Product Description

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KEY FEATURES
- 1A, 2B, 2C configurations
- Low IL at 0.7 dB
- Single-mode or multimode

APPLICATIONS
- Manufacturing 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
- SX4 Switch
- AC power cord
- Test Report

ORDERING SCHEME

1 - Configuration Options

1A x N
- Position 0
- A Configuration - Single input, switched to any output

2B x N
- Position 0
- 2B Configuration - Two inputs switched to synchronized outputs

2C x N
- Position 0
- 2C Configuration - Two inputs switched to any output with second input trailing first input

IN THE BOX

- SX4 Switch
- AC power cord
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CONTACTS

- FC/UPC
- FC/APC
- SC/UPC
- SC/APC
- LC/UPC
- LC/APC

FIBER TYPES

- 1 input, A config.
- 2 inputs, B config.
- 2 inputs, C config.

CONFIGURATION

- 1A 1 input, A config.
- 2B outputs, B config.
- 2C outputs, C config.

OUTPUTS

- 10
- 20
- 30

PIGTAIL LENGTH

- 0.5 m
- 1.0 m
- 2.0 m
- 3.0 m
- 5.0 m
- 10.0 m

CONNECTOR TYPE

- FC, SC/UPC
- LC, SC/UPC
- FC, SC/APC
- LC, SC/APC

http://www.jgroptics.com
### Optical/Electrical Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Parameter</strong></td>
<td><strong>Single-mode</strong></td>
</tr>
<tr>
<td>Wavelength Range (nm)</td>
<td>1250 - 1670</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>1</td>
</tr>
<tr>
<td>Backreflection (dB)</td>
<td>≤ -60</td>
</tr>
<tr>
<td>PDL (dB)</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Repeatability (random switching) (dB)</td>
<td>± 0.025</td>
</tr>
<tr>
<td>Maximum Input Power (mW)</td>
<td>300</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>100 - 240 V AC, 50 - 60 Hz</td>
</tr>
<tr>
<td>Control</td>
<td>Front Panel / GPIB / RS232 / USB</td>
</tr>
<tr>
<td>Switch Life</td>
<td>10⁷ cycles</td>
</tr>
</tbody>
</table>

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

### Mechanical/Environmental Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Dimensions W x H x D (cm)</td>
<td>25 x 12 x 27</td>
</tr>
<tr>
<td>Shipping Box Dimensions W x H x D (cm)</td>
<td>37 x 25 x 38</td>
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<tr>
<td>Unit Weight (kg)</td>
<td>3</td>
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<tr>
<td>Total Shipment Weight (kg)</td>
<td>4</td>
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<tr>
<td>Operating Temperature (°C)</td>
<td>0 to 55</td>
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<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>