

SX8 Rackmount Optical Switch



PRODUCT DESCRIPTION

JGR's SX8 fiberoptic switches are customizable benchtop/rackmount instruments ideal for high-volume manufacturing production testing. Available in singlemode 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/UPC, FC/APC, SC/UPC, or SC/APC connector types and several pigtail length options are 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

KEY FEATURES

- Low IL at 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

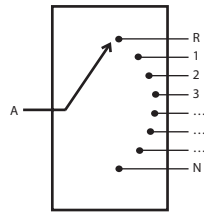
- SX8 Switch
- AC power cord
- Test Report

HOW TO ORDER

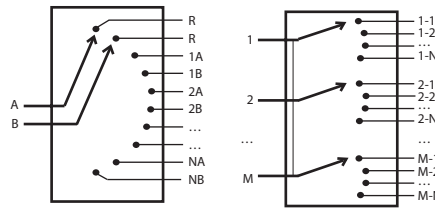
Choose one characteristic from each column and assemble the part number.

CONFIGURATION

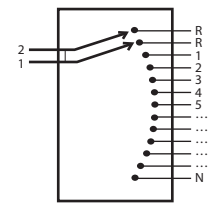
A-Configuration: 1xN



B-Configuration: Ganged 1xN (MxN) Configurations



C-Configuration MxN Non-blocking



ORDERING SCHEME

SX8- - -

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

| OUTPUTS | |
|---------|-----|
| 002 | 2 |
| 004 | 4 |
| 008 | 8 |
| 016 | 16 |
| 032 | 32 |
| ... | ... |
| 360 | 360 |

| FIBER TYPE | |
|------------|-------------|
| 09 | 9/125 μm |
| 50 | 50/125 μm |
| 62 | 62.5/125 μm |

| CONNECTOR TYPE | |
|----------------|--------|
| FP | FC/UPC |
| FA | FC/APC |
| SP | SC/UPC |
| SA | SC/APC |

| PIGTAIL POSITION | |
|------------------|------------------|
| B | bulkheads* |
| F | front of chassis |
| R | rear of chassis |

*front option only

| PIGTAIL LENGTH | |
|----------------|-----------|
| 00 | bulkheads |
| 01 | 1.0 m |
| 02 | 2.0 m |
| 03 | 3.0 m |
| ... | ... |
| 10 | 10.0 m |

CONTACT US

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SPECIFICATIONS

| OPTICAL / ELECTRICAL SPECIFICATIONS | | |
|---------------------------------------|---|------------|
| Parameter | Specification | |
| | Single-mode | Multimode |
| Wavelength Range (nm) | 1250 - 1670 | 840 - 1350 |
| Insertion Loss (dB) ¹ | 0.7 | |
| Backreflection (dB) ¹ | ≤ -60 | ≤ -40 |
| PDL (dB) | 0.05 | N/A |
| Repeatability (random switching) (dB) | ± 0.03 | |
| Repeatability (sequential) (dB) | ± 0.005 | |
| Crosstalk (maximum) (dB) | -80 | |
| Maximum Input Power (mW) | 300 | |
| Switching Time (ms) | 300 | |
| Input Voltage | 100 - 240 V AC, 50 - 60 Hz | |
| Power Consumption (VA) | 150 maximum | |
| Control | Front Panel / GPIB / RS232 / USB ² | |
| Switch Life | 10 ⁸ cycles | |

¹ Excluding connectors.

² USB interface via -USB-DB9 adapter.

| MECHANICAL / ENVIRONMENTAL SPECIFICATIONS | | |
|---|---------------------------------|-----------|
| Parameter | Specification | |
| | Single-mode | Multimode |
| 3U Unit Dimensions W x H x D (cm) | 48 x 13.5 x 37.5 | |
| 6U Unit Dimensions W x H x D (cm) | 48 x 27 x 37.5 | |
| 3U Shipping Box Dimensions W x H x D (cm) | 53 x 32 x 57 | |
| 6U Shipping Box Dimensions W x H x D (cm) | 53 x 55 x 55 | |
| Unit Weight (kg) | 14 (depending on configuration) | |
| Total Shipment Weight (kg) | 15 (depending on configuration) | |
| Operating Temperature (°C) | 0 to 55 | |
| Storage Temperature (°C) | -40 to 70 | |
| Humidity (Non-condensing) (°C) | Maximum 95% RH from 0 to 40 | |

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