



### Product Description

The SX8 Rackmount Optical Switch is a customizable benchtop/rackmount instruments ideal for high-volume manufacturing production testing. Available in single-mode or multimode, 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 can be fitted with FC, SC or LC connector types. The 3U chassis can contain up to 96 bulkheads for FC or 120 for SC and LC. Larger channel counts move to a 6U chassis.

\*USB interface via-USB-DB9 adapter

### KEY FEATURES

- Low IL < 0.7 dB
- Up to 360 outputs
- Many configuration possibilities

### APPLICATIONS

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

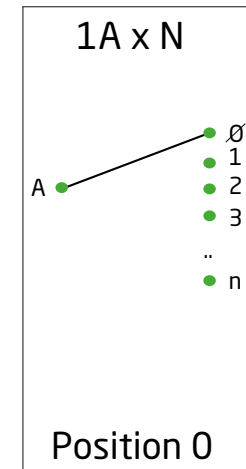
### COMPLIANCE

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

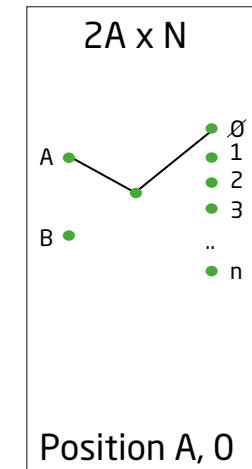
### IN THE BOX

- SX8 Switch
- AC power cord
- Test report

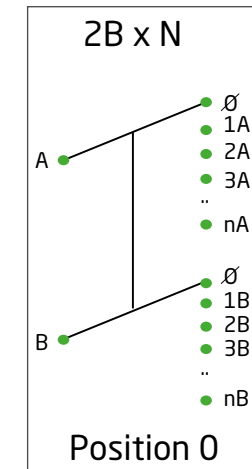
### Configuration Options



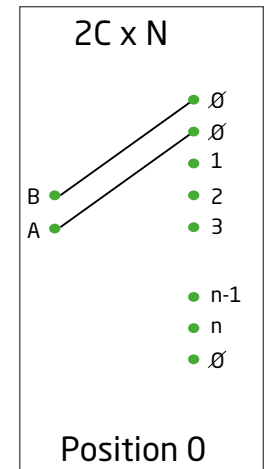
**1A Configuration** - Single input, switched to any output



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

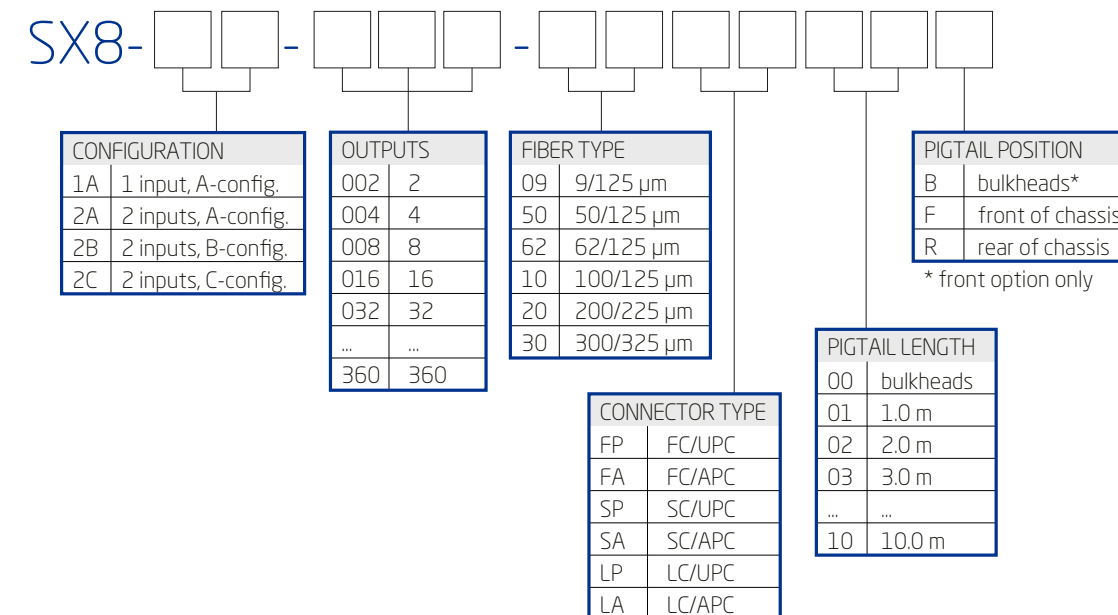


**2B Configuration** - Two inputs switched to synchronized outputs



**2C Configuration** - Two inputs switched to any output with second input trailing first input

### Ordering Scheme



Optical/Electrical Specifications

Parameter	Specification	
	Single-mode	Multimode
Wavelength Range (nm)	1250 to 1670	840 to 1350
Insertion Loss (dB) <sup>1</sup>	< 0.7	
Backreflection (dB) <sup>1</sup>	< -60	< -40
PDL (dB)	0.05	N/A
Repeatability (dB) <sup>2</sup>	± 0.005	
Crosstalk (dB)	< -80	
Maximum Input Power (dBm)	23	
Switching Time (ms)	300	
Control	Front Panel / GPIB / RS232 / USB <sup>3</sup>	
Input Voltage	100 to 240 V AC, 50 to 60 Hz	
Power Consumption (VA)	150 maximum	
Switch Life (cycles)	10 <sup>8</sup>	

Notes:  
<sup>1</sup> Excluding connectors.  
<sup>2</sup> Sequential switching, add ±0.02 dB for random  
<sup>3</sup> USB interface via USB-DB9 adapter.

Mechanical/Environmental Specifications

Parameter	Specification
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)	Maximum 95% RH from 0 to 40°C

