



Product Description

The SX1 Optical Switch is a customizable benchtop/rackmount instrument 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 (USB or Ethernet).

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.

KEY FEATURES

- Low IL <0.7dB
- ± 0.005dB repeatability
- Up to 360 outputs
- Chassis modular
- Customization available

APPLICATIONS

- High-volume production testing
- Multiple device testing
- Test automation
- Paired with RL1 for multi-fiber testing

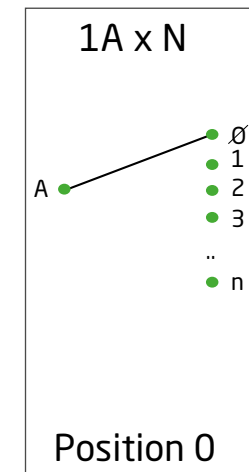
COMPLIANCE

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

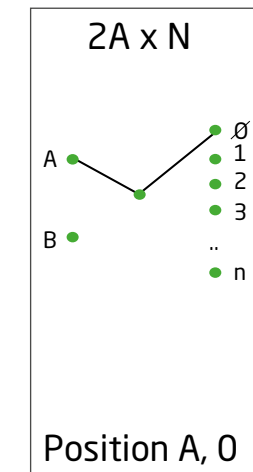
IN THE BOX

- SX1 Switch
- AC power cord
- Test report

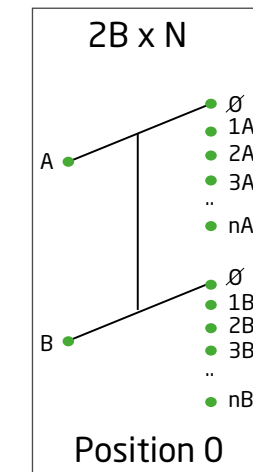
Configuration Options



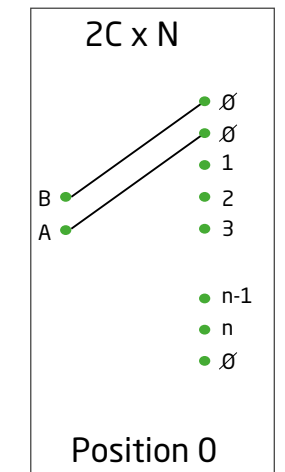
1A Configuration - Single input, switched to any output



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

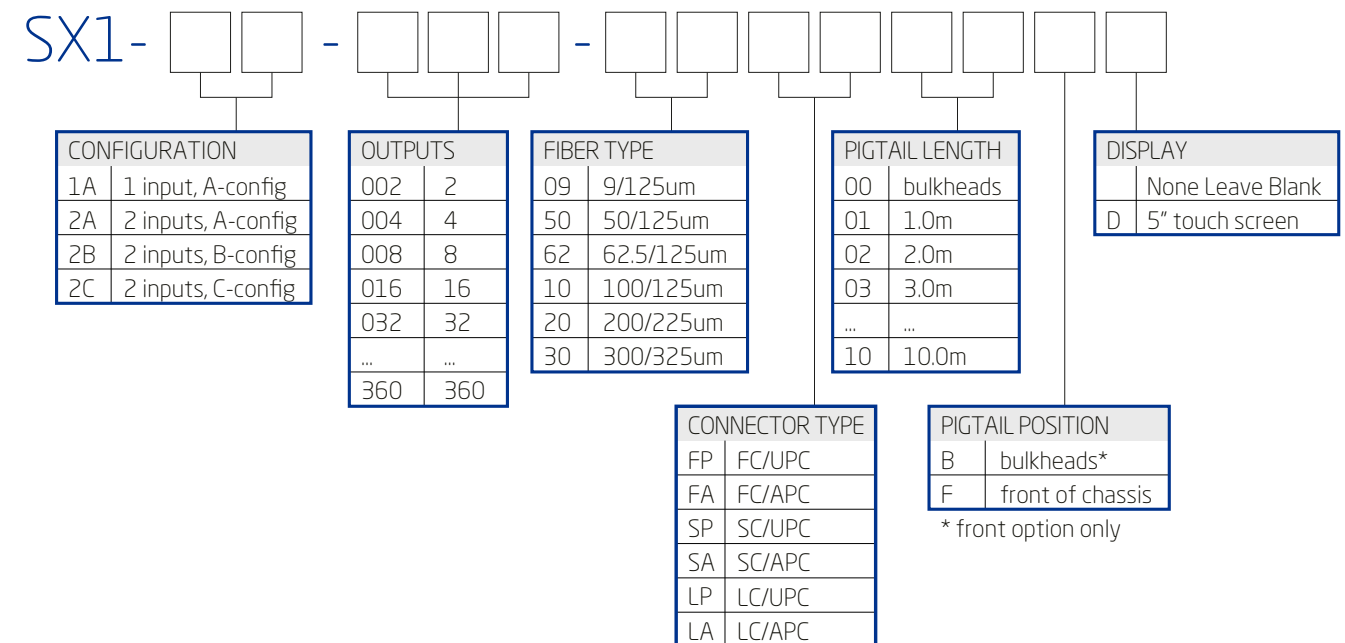


2B Configuration - Two inputs switched to synchronized outputs



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 - 1670	840 - 1350
Insertion Loss (dB) ¹	<0.7	
Backreflection (dB) ¹	≤ -60	≤ -40
PDL (dB)	0.05	N/A
Repeatability (dB) ²	± 0.005	
Crosstalk (maximum) (dB)	-80	
Maximum Input Power (dBm)	23	
Switch Life	10 ⁸ cycles	
Switching Time (ms)	300	
Control	USB or Ethernet	
Input Voltage	100 - 240 V AC, 50 - 60 Hz	
Power Consumption (VA)	60 maximum	
Display	Optional 5" touch screen	

Notes:
¹ Excluding connectors.
² Sequential switching. Add ±0.02 for random

Mechanical/Environmental Specifications

Parameter	Specification	
	2U half rack	3U full rack
Max Output Channels		
Without Touchscreen	up to 1x36	up to 1x120
With 5" Touchscreen	up to 1x12	up to 1x96
Unit Dimensions W x H x D (cm)	23.5 x 12 x 32.5	44.5 x 13.5 x 45
Shipping Box Dimensions W x H x D (cm)	36.5 x 39 x 53	53 x 32 x 57
Unit Weight (kg)	8	14
Total Shipment Weight (kg)	9	15
Operating Temperature (°C)	0 to 55	
Storage Temperature (°C)	-40 to 70	
Humidity (Non-condensing)	Maximum 95% RH from 0 to 40°C	

