

FIBER-OPTIC SWITCH

The **FOS Series Fiber Optic Switch** is a convenient way to connect up to eight lasers to a single fiber-coupled instrument, such as the wavelength meters and spectrum analyzers provided by Bristol Instruments.

The FOS Fiber-Optic Switch is a self-contained micro-electromechanical (MEMS) switch that operates from 400 to 1700 nm. The switch is USB powered and controlled using a simple and intuitive PC application. Switching can be done manually, with the user selecting an appropriate channel. Or, switching can be done automatically by cycling through user specified channels.



SPECIFICATIONS	
SWITCH TYPE	1 x 4 or 1 x 8
WAVELENGTH RANGE	400 - 1700 nm
INTERNAL FIBER TYPE	9 μm core diameter (single-mode over 1260 - 1625 nm)
CONNECTOR TYPE	FC/UPC or FC/APC
TYPICAL TRANSMISSION¹	10 - 30% (400 - 600 nm) 30 - 40% (600 - 1700 nm)
REPEATABILITY²	≥ 0.01 dB
POLARIZATION DEPENDENT LOSS²	≥ 0.1 dB
RETURN LOSS²	≥ - 40 dB
CROSSTALK²	≥ - 50 dB
SWITCHING TIME	≥ 5 ms
SWITCHING FREQUENCY	≥ 30 Hz
LIFETIME	> 10 ⁸ cycles
MAXIMUM INPUT POWER	+20 dBm (100 mW)
DIMENSIONS (H x W x D)	2.5" x 5.5" x 9.0" (64 mm x 140 mm x 229 mm)
WEIGHT	2.5 lbs (1.1kg)
POWER	USB 2.0/500 mA
INSTRUMENT INTERFACE	Windows-based application via USB 2.0 or greater

(1) With 9 μm core diameter external fiber

(2) Typical