

FIBER-OPTIC SWITCH

FOS 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 microelectromechanical (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

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SWITCH TYPE	1 x 4 or 1 x 8
WAVELENGTH RANGE	400 - 1700 nm
INTERNAL FIBER TYPE	9 μ m core diameter (single-mode over 1260 - 1625 nm)
CONNECTOR TYPE	FC/UPC or FC/APC
TRANSMISSION ^{1, 2}	10 - 30% (400 - 600 nm) 30 - 40% (600 - 1700 nm)
REPEATABILITY ²	\geq 0.01 dB
POLORIZATION DEPENDENT LOSS ²	\geq 0.1 dB
RETURN LOSS ²	\geq 40 dB
CROSSTALK ²	\leq - 50 dB
SWITCHING TIME	\leq 5 ms
SWITCHING FREQUENCY	\leq 30 Hz
LIFETIME	Earlier of 10^8 cycles or two years
MAXIMUM INPUT POWER	0.05 mW (400 - 500 nm) 10 mW (500 - 600 nm) 100 mW (600 - 1700 nm)
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 μ m core diameter external fiber

(2) Typical