

FIBER-OPTIC SWITCH

FOS Fiber-Optic Switch

The Bristol Instruments FOS Series Fiber-Optics Switch provides a convenient way to connect up to eight lasers to a single fiber-coupled instrument, such as our wavelength meters and spectrum analyzers.

The FOS Fiber-Optic Switch allows a single wavelength meter or spectrum analyzer to characterize multiple lasers automatically. Complex experiments and multiple users can be easily accommodated with the FOS Series.



SPECIFICATIONS

	VIS / NIR	NIR2
SWITCH TYPE	1 x 4 or 1 x 8	
WAVELENGTH RANGE	400 - 1700 nm	1000 - 2600 nm
INTERNAL FIBER TYPE	9 μ m core diameter (single-mode over 1260 - 1625 nm)	7 μ m core diameter (single-mode over 1850 - 2200 nm)
CONNECTOR TYPE	FC/UPC or FC/APC	
TRANSMISSION ^{1, 2}	10 - 30% (400 - 600 nm) 30 - 40% (600 - 1700 nm)	20 - 40% (1000 - 1600 nm) 10 - 20% (1600 - 2600 nm)
REPEATABILITY ²	≥ 0.01 dB	
POLORIZATION DEPENDENT LOSS ²	≥ 0.1 dB	
RETURN LOSS ²	≥ 40 dB	
CROSSTALK ²	$\leq - 50$ dB	
SWITCHING TIME	≤ 5 ms	
SWITCHING FREQUENCY	≤ 30 Hz	
MAXIMUM INPUT POWER	0.05 mW (400 - 500 nm) 10 mW (500 - 600 nm) 100 mW (600 - 1700 nm)	100 mW (1000 - 2600 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	
LIFETIME/CYCLES	1 billion (10^9)	
WARRANTY	1 year (parts and labor)	

(1) Achieved using an optical input fiber with a core diameter that matches the FOS internal fiber.

(2) Characteristic performance, but non-warranted.

Bristol Instruments reserves the right to change the specifications as may be required to permit improvements in the design of its products. Specifications are subject to change without notice.