BRISTOL INSTRUMENTS

Accuracy. Reliability. Confidence.

FIBER-OPTIC SWITCH

FOS Fiber-Optic Switch

The Bristol Instruments FOS Series Fiber-Optic 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 µm core diameter (single-mode over 1260 - 1625 nm)	7 µm 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]	≤ - 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.

It's our business to be exact! **p:** (585) 924-2620 **w:** bristol-inst.com **e:** info@bristol-inst.com

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