## FIBER OPTIC SWITCHES

## PRELIMINARY

## Features

－ $1 \times 4$ to $1 \times 36$ channel configuration
－Multiple fiber or device testing capability
－Standard unit comes with single mode fiber for $1250-1670 \mathrm{~nm}$ ．Other options are also available upon request
－Wide range of available wavelengths
－Touch screen display
－High resolution
－Fast switching time
－High repeatability


## Applications

－Optical network monitoring
－Fiber based sensors
－Quality control
－End－to－end loss measurement

## Product Description

OZ Optics now offers turnkey rack mountable op－ tical switches with built－in electronics and color touch screen．The switch is offered in a $1 \times 4$ to $1 \times 36$ configuration．It can be customized with 2 independent optical switches in one rack mount． The standard units are configured with 9／125 um SM fiber for broad operating wavelengths cover－ ing 1250 nm to 1670 nm ．These switches are built using mature and highly reliable MEMS technol－ ogy，achieving a low insertion loss and high chan－ nel isolation．The switches have been tested over millions of switching cycles with no change in losses．They are ideal for test instruments．Sys－ tems come with a USB interface port．Systems with polarization maintaining fiber or multimode fi－ ber can be offered on a case－by－case basis using different mechanical switch technologies．Contact OZ Optics with your specific product requirement．


## Standard Specifications



1 All specifications measured at 1550 nm , at constant temperature $25^{\circ} \mathrm{C}$ and no polarization variation.
2 Not including connector.

## Ordering Information For Custom Parts

OZ Optics welcomes the opportunity to provide custom designed products to meet your application needs. As with most manufacturers, customized products do take additional effort so please expect some differences in the pricing compared to our standard parts list. In particular, we will need additional time to prepare a comprehensive quotation, and lead times will be longer than normal. In most cases nonrecurring engineering (NRE) charges, lot charges, and a minimum quantity order will be necessary. These points will be carefully explained in your quotation, so your decision will be as well informed as possible. We strongly recommend buying our standard products.

Note concerning part numbers: Depending on the configuration of the desired system, the fiber types, and receptacles may be different for input and output ports. Therefore it is important to correctly identify each port in the proper order.

## Questionnaire For Custom Parts

1. What wavelength range are you interested in?
2. What type of fiber is being used? Singlemode, Multimode or PM?
3. Do you want one or two input ports?
4. How many output ports do you need?
5. What receptacle fiber interface do you want on device front panel?
6. What is the maximum input power that will be launched in the system?

Part Number $\quad$ FOS-1000- $-\mathbf{U}-1 x \underline{N}-\underline{-}-\underline{W}-\underline{a} / b-\underline{E}$


| $\underline{\boldsymbol{E}}=$ | Fiber type: S-SM, P-PM, M-MM |
| ---: | :--- |
| $\underline{\mathbf{a} / \boldsymbol{b}}=$ | Fiber Core/Cladding $($ um $)$ |
| $\underline{\boldsymbol{W}}=$ | Wavelength |
| $\underline{\boldsymbol{X}}=$ | Connector type* on each port: |
|  | FC/SPC $=3 \mathrm{~S} \quad$ LC/SPC $=$ LC |
|  | FC/APC $=3 A \quad$ LC/APC $=$ LCA |
|  | FC/UPC $=3 U \quad$ LC/UPC $=$ LCU |

* For other connectors see Table 6 of our Standard Tables data sheet. https://www.ozoptics.com/ALLNEW_PDF/DTS0079.pdf


## Example For Custom Part

For a remote test system a customer is looking for a 1550 nm SM optical switch in a rack mount with 2 separate $1 \times 12$ optical switches terminated with FC/APC connectors.

The part to order will be: FOS-1000-2-1x12-3A-1550-9/125-S

