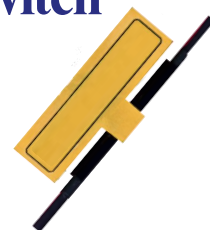


# 1501 Electrically Controlled Optical Switch

Q1000-S



## 1x2 Compact Fiber Switch-1550 nm

This 1x2 compact fiber optic switch utilizes micro-optics and a miniaturized relay to cross switch two optical inputs to two optical outputs. The optical output state will be latched after the drive voltage is removed. It features low loss, high cross talk, and very repeatable operation.

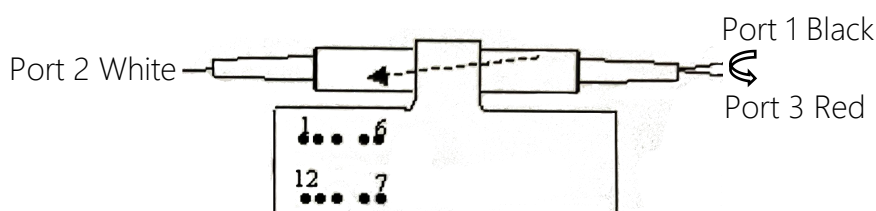
### FEATURES

- Low Insertion Loss
- Parallel Interface
- Modularized Design
- Epoxy Free on Optical Path

### USE IN

- Ring Network
- Remote Monitoring in Optical Network
- Testing of Fiber Optical Component

### FUNCTIONAL DIAGRAM



Optical Path	Pins							
	Electrical Drive				Status Contacts			
	1	12	2	11	3-5	3-6	10-7	10-8
Reflection1→3	GND	/	GND	+5 V DC	Closed	Open	Open	Closed
Transmission 1→2	GND	+5 V DC	GND	/	Open	Closed	Closed	Open

Insertion Loss	0.50 dB max.
Operating Wavelength	1520 nm to 1580 nm
Crosstalk	-60 dB max.
Return Loss	50 dB min.
PDL	0.05 dB max.
Repeatability	±0.05 max.
Power Supply	5 V
Switch Time	10 ms max.
Current	40 mA
Operating Temperature	-5°C to +70°C
Fiber Type	SM Fiber
Dimensions	7.5x7.5x62.5 mm

**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.  
**Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.**