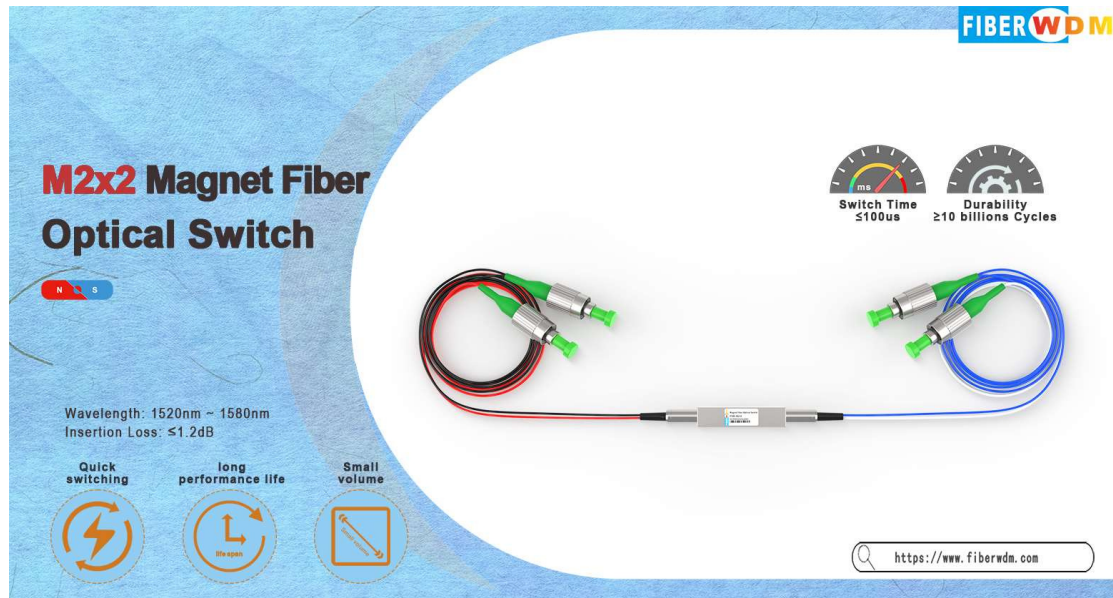


## M2x2B Magnet Fiber Optical Switch

The M2x2B optical switch is connected to the optical path by connecting or blocking the optical signal. the switch has non-mechanical configurations and activated via an electrical control signal. the switch also has build-in circulator and isolator functions. Products are widely used in aerospace and military equipment.



### Features

- ◆ Solid-state high speed
- ◆ High Stability, High Reliability
- ◆ Epoxy-free on Optical Path
- ◆ Fail-safe latching

### Applications

- ◆ Aerospace equipment
- ◆ Configurable Add/Drop
- ◆ System monitoring
- ◆ Sensing system

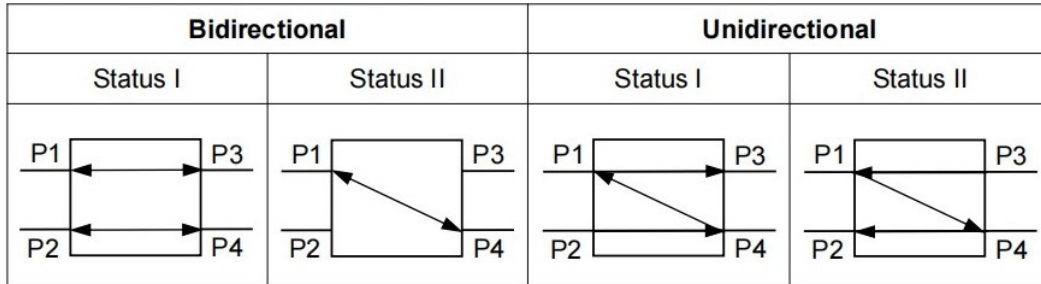
### Performance Specifications

Parameters	Unit	Specifications
Wavelength Range	nm	1520 ~ 1580
Test Wavelength	nm	1550
Insertion Loss <sup>1,2</sup>	dB	$\leq 1.2$
TDL	dB	$\leq 0.30$
PDL	dB	$\leq 0.20$
Return Loss	dB	$\geq 50$
Crosstalk	dB	Bidirectional $\geq 20$
		Unidirectional $\geq 40$
Repeatability	dB	$\leq \pm 0.01$
Switching Time	us	$\leq 100$
Pulse Duration	us	$\geq 200$
Durability	Cycles	$\geq 10$ Bllions
Switch Type	NA	Latching



	II	P1 → P4 P4 → P2 P3 → P1	V+	GND
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**Functional Diagram**



**Ordering Information**

FSW-M2x2B-□-□-□-□-□-□-□-□

—□	—□	—□	—□	—□	—□	—□
Switch Type	Fiber Type	Voltage	Wavelength	Tube Type	Fiber Length	Connector
<b>B:</b> Bidirectional	<b>SM:</b> SM, 9/125	<b>2.5:</b> 2.5V	<b>1550:</b> 1550nm	<b>250:</b> 250um	<b>05:</b> 0.5m±5cm	<b>OO:</b> None <b>FC:</b> FC/PC
<b>U:</b> Unidirectional	<b>X:</b> Others	<b>5.0:</b> 5.0V	<b>X:</b> Others	<b>900:</b> 900um <b>X:</b> Others	<b>10:</b> 1.0m±5cm <b>X:</b> Others	<b>FA:</b> FC/APC <b>SC:</b> SC/PC <b>SA:</b> SC/APC <b>LC:</b> LC/PC <b>X:</b> Others