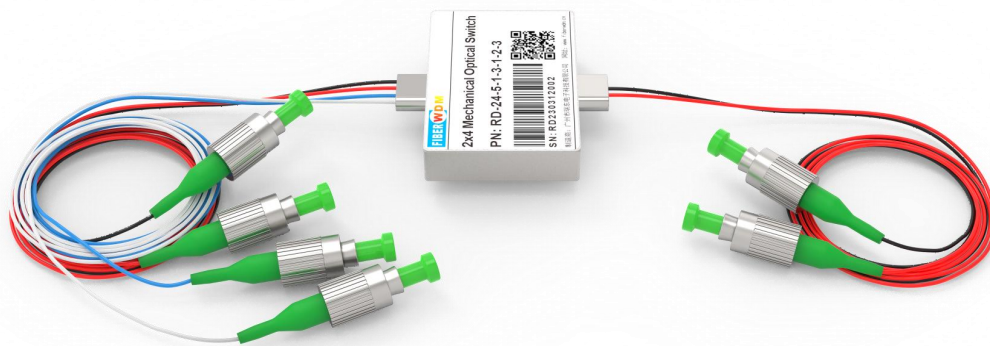


2x4 Mechanical Optical Switch

The 2X4 fiber optic switch connects optical channels by directing or blocking an incoming optical signal into the output fiber. This is achieved using a patent pending pop-to-mechanical configuration and activated via an electrical control signal. Latching version preserves the selected optical path after the drive signal has been removed, while the non-latching versions default to either the open or closed state when power is removed. The switch has integrated electrical position sensors. The new material based advanced design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as unmatched low cost.



Features

- ◆ Unmatched Low Cost
- ◆ Low Optical Distortions
- ◆ High Isolation
- ◆ High Reliability
- ◆ Epoxy-Free Optical Path

Applications

- ◆ Channel Blocking
- ◆ Configurable Add/Drop
- ◆ System Monitoring
- ◆ Instrumentation

Specifications

Parameters	Specifications	Unit
Operating Wavelength	1260~1620(SM)、850(MM)	nm
Insertion Loss	≤ 1.2	dB
Wavelength Dependent Loss	≤ 0.40	dB
Polarization Dependent Loss	≤ 0.05	dB
Temperature Dependent Loss	≤ 0.20	dB
Return Loss	SM ≥ 50 MM ≥ 30	dB
Cross Talk	SM ≥ 55 MM ≥ 35	dB
Switch Time	≤ 8	ms
Repeatability	$\leq \pm 0.02$	dB
Durability	$\geq 10^7$	times

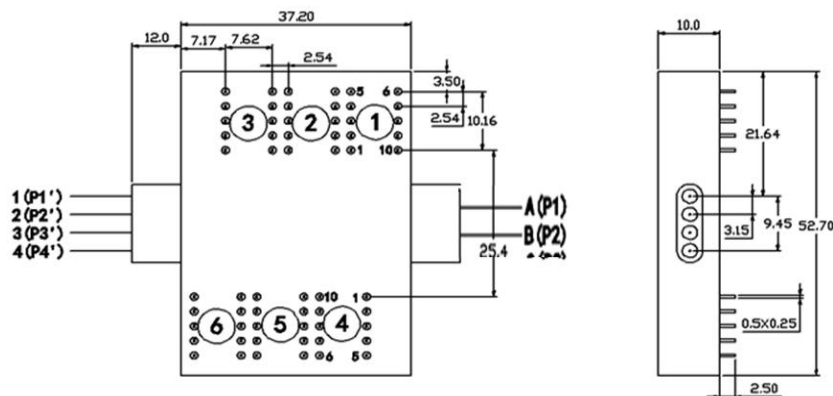
Operating Voltage	3 or 5	V
Switch Type	Non-Latching/Latching	
Operating Temperature	-20~+70	℃
Storage Temperature	-40~+85	℃
Optical Power	≤500	mw
Dimension	52.7L×37.2W×10.0H	mm

Pin Configurations:

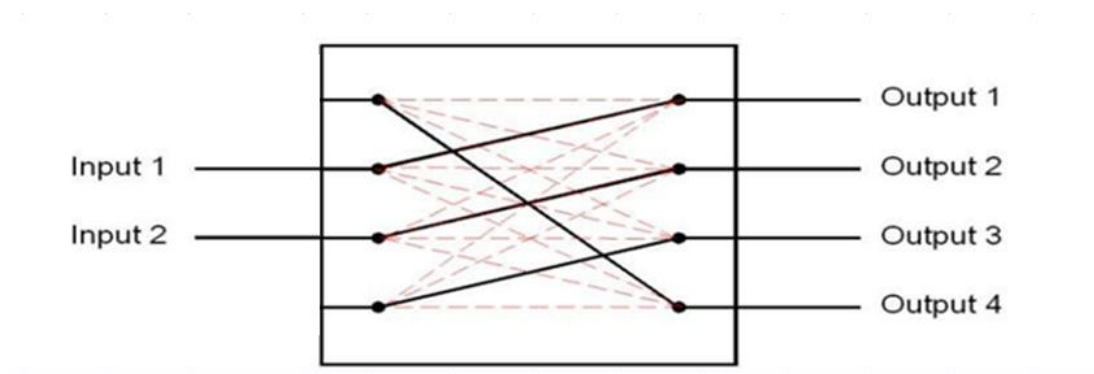
Type	State	Electric Drive				Status Sensor			
2X4		Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	0	--	--	GND	V+	Close	Open	Open	Close
	1	V+	GND	--	--	Open	Close	Close	Open
Non-latching	0	--	--	--	--	Close	Open	Open	Close
	1	V+	--	--	GND	Open	Close	Close	Open

NO.	Optical Route	Relay					
		1	2	3	4	5	6
1	A-1、B-2	0	0	0	1	0	1
2	A-1、B-3	1	1	0	1	1	1
3	A-1、B-4	1	1	0	1	1	0
4	A-2、B-1	1	0	0	1	0	1
5	A-2、B-3	1	1	1	1	1	1
6	A-2、B-4	1	1	1	0	1	1
7	A-3、B-1	0	0	1	1	1	1
8	A-3、B-2	0	1	1	1	1	1
9	A-3、B-4	1	1	1	0	0	1
10	A-4、B-1	0	0	1	1	1	0
11	A-4、B-2	0	1	1	1	1	0
12	A-4、B-3	1	1	1	0	0	0

Mechanical Dimensions (Unit:mm)



Optical Route



Ordering Information

RD-FSW	-2x4-	-Wavelength-	-Switch Type-	-Voltage-	-Fiber Type-	-Package-	-Fiber length-	-Connector-
		1060=1 C+L=2 1310=3 1410=4 1550=5 650=6 780=7 1260-1610=A 1310/1550=9 850=8 Special=0	Latching=1 Non-latching=2 Special=0	3V=3 5V=5 Special=0	SM28=1 50/125=5 62.5/125=6 Special=0	Bare fiber=1 900um tube=3 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC/PC=7 Duplex LC=8 Special=0