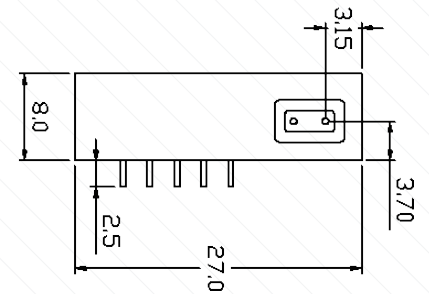
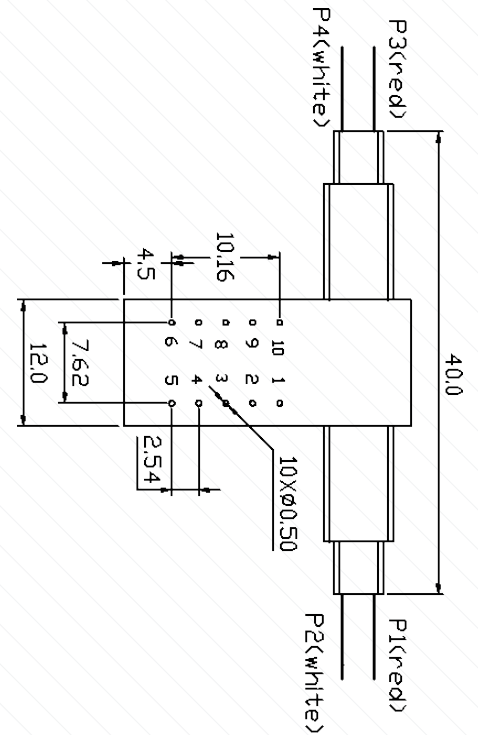


# Full 2x2 Mechanical Optical Switch

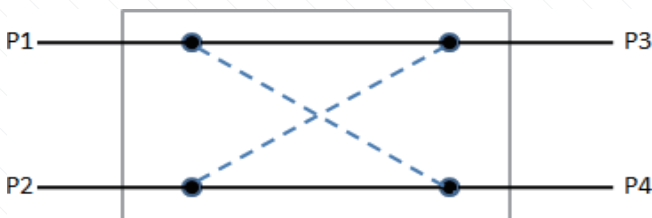
### Product Description:

The Full 2x2 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 opto-mechanical configuration and activated via an electrical control signal. A 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.



Applications	Features
Channel Blocking	Unmatched Low Cost
Configurable Add/Drop	Low Optical Distortions
System Monitoring	Fail-Safe Latching
Instrumentation	High Reliability
	Epoxy-Free Optical Path

### Optical Route



### Pin Configurations

Type	Optical Route	Electric Drive				State Sensor			
		Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	P1-P4 / P2-P3	--	--	GND	V+	Close	Open	Open	Close
	P1-P3 / P2-P4	V+	GND	--	--	Open	Close	Close	Open
Non-latching	P1-P4 / P2-P3	--	--	--	--	Close	Open	Open	Close
	P1-P3 / P2-P4	V+	--	--	GND	Open	Close	Close	Open

Parameters	Specifications	Unit
Operating Wavelength	1260 ~1620(SM)	nm
Insertion Loss	$\leq 1.0$	dB
Wavelength Dependent Loss	$\leq 0.25$	dB
Polarization Dependent Loss	$\leq 0.05$	dB
Temperature Dependent Loss	$\leq 0.20$	dB
Return Loss	SM $\geq 50$	dB
Cross Talk	SM $\geq 50$	dB
Switch Time	$\leq 8$	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	°C
Storage Temperature	-40 ~ +85	°C
Optical Power	$\leq 500$	mW
Dimension	27.0L × 12.0W × 8.0H	mm