



2x2 Mechanical PM Fiber Optic Switch

Features

- Unmatched Low Cost
- Low Insertion Loss
- Latching or Non-Latching
- Highly Channel Isolation
- High Stable and Reliable
- Epoxy-Free Optical Path

Applications

- Optical Signal Routing
- Optical Network Protection/Restoration
- Configurable Optical Add/Drop
- Transmitter and Receiver Protection
- Network Test Systems
- Instrumentation



Performance Specifications

Parameter	Specification	
Operating Wavelength (nm)	1310+/-40	1550+/-40
Insertion Loss (dB)	0.8(typ.), 1.2(Max.)	
Wavelength Dependent Loss(WDL)(dB)	≤0.20	
Extinction Ratio (dB)	≥18 (typ. 20)	
Repeatability (dB)	±0.02	
Cross Talk (dB)	≥60	
Return Loss (dB)	≥55	
Switching Speed(ms)	≤10.0	
Drive Voltage(V)	4.5 ~ 5.5	
Power Handling(mW)	500	
Durability (Cycles)	10 Million (Min.)	
Operating Temperature (°C)	0 ~ +70	
Fiber Type	Panda PM Fiber	
Dimensions (mm) (LxWxH)	29x15x10	

1. The PM fiber and the connector key area aligned to the slow axis.

2. The ER is for fiber $\leq 0.75\text{meter}$. Increase fiber length can decrease the ER.

3. For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower, and extinction loss will be 2dB lower.

Specifications may change without notice.

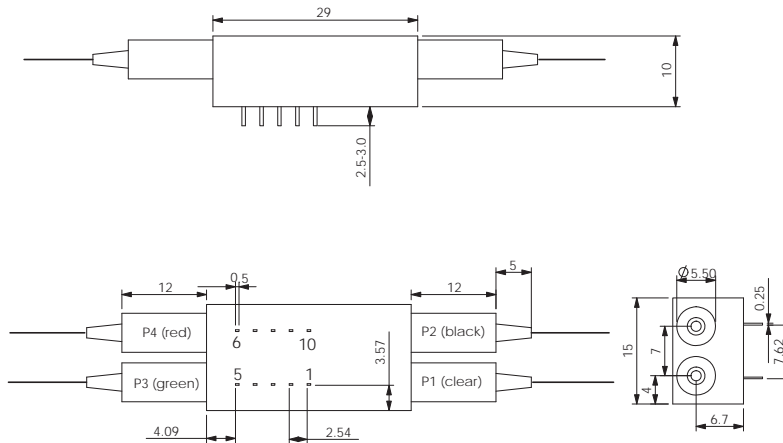
Ordering Information

Option	Operating Wavelength	Port	Grade	Fiber Type	Fiber Length	In/Out Connector
PMS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	13=1310nm 15=1550nm	0202=2x2	P=P Grade	1=Bare Fiber 2=900um Jacket	1=0.75m 2=1.0m 3=1.5m S=Specify	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC/UPC 7=LC/APC

AC Photonics' PMS Series switch connects optical channels by redirecting an incoming optical signal into a selected output fiber.

This is achieved using patent pending opto-mechanical proprietary configurations and activated via an electrical control signal. At the same time, the polarization state of the signal is preserved.

Dimensions (mm)



Bottom View

Electric Configuration

Optical Path		Port1-Port3 and Port2-Port4		Port1-Port4 and Port2-Port3	
Electric Drive	Non-Latching			Pin1	Pin10
	Latching	Pin10	Pin6	Pin1	Pin5
		V+	GND	V+	GND
Sensor Status	Non-Latching and Latching	Pin2-3, Pin8-9 Close		Pin2-3, Pin8-9 Open	
		Pin3-4, Pin7-8 Open		Pin3-4, Pin7-8 Close	

Parameter	Typical	Min	Max	Unit
Switch Voltage	5	4.5	5.5	V
Switch Current		>40		mA
Pulse Duration		>25		ms