



# 1x4 Mechanical PM Fiberoptic Switch

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.



## Features

- High Extinction Ratio
- Low Insertion Loss
- High Channel Isolation
- Highly Stable and Reliable
- Epoxy Free Optical Path

## Applications

- Optical Signal Routing
- Network Test Systems
- Instrumentation

## Performance Specifications

Parameter	Specification
Operating Wavelength(nm)	1310±40,1550±40
Insertion Loss(dB)	≤1.1
Wavelength Dependent Loss(WDL)(dB)	≤0.2
Extinction Ratio(dB)	≥18 (typ.20)
CrossTalk(dB)	≥55
Return Loss(dB)	≥50
Repeatability(dB)	±0.02
Switching Speed(ms)	≤10(typ.5)
Drive Voltage(v)	5
Power Handling(mW)	500
Durability(Cycles)	10million
Operating Temperature(°C)	0~+70
Storage Temperature(°C)	-40~+85
Fiber Type	Panda PM fiber
Dimensions (mm)	26x25.5x10.3

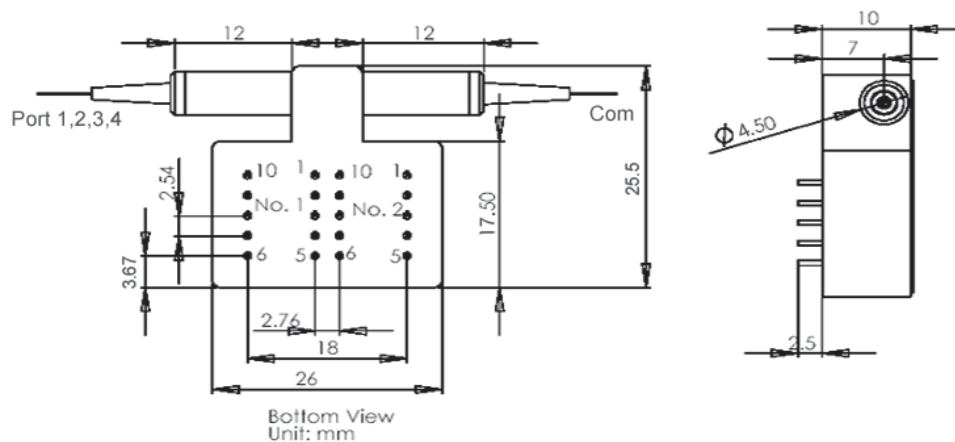
1. The PM fiber and the connector key are aligned to the slow axis.
2. The ER is for fiber <math>\leq 0.75</math> meter. Increase fiber length can decrease the ER.
3. For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower, and extinction loss will be 2dB lower.

Specifications may change without notice.

## Ordering Information

Option	Operating Wavelength	Port	Grade	Pigtail Style	Fiber Length	In/Out Connector
L= Latching	15=1550nm 13=1310nm	0104=1x4	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

## Dimension (mm)



## Electric Configuration

Relay Status	Electric Drive (Pin #)				Sensor Status (Pin #)			
	1	5	6	10	2-3	3-4	8-7	8-9
0 (Reset)	GND	GND	GND	+	Close	Open	Open	Close
1 (Set)	+	GND	GND	GND	Open	Close	Close	Open

## Optical Switch Configuration

Relay No.	1	2	Switch Status
Relay Status	0	0	C – Port 1
	0	1	C – Port 2
	1	0	C - Port 3
	1	1	C – Port 4