

## 1x4 Mechanical PM Fiberoptic Switch



ACP's PMS Series switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using a patent pending opto-mechanical configuration and activated via an electrical control signal. At the same time, the polarization state of the signal is preserved.

### Key Features

- High Extinction Ratio
- Low Insertion Loss
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path

### Applications

- Optical Signal Routing
- Network Test Systems
- Instrumentation

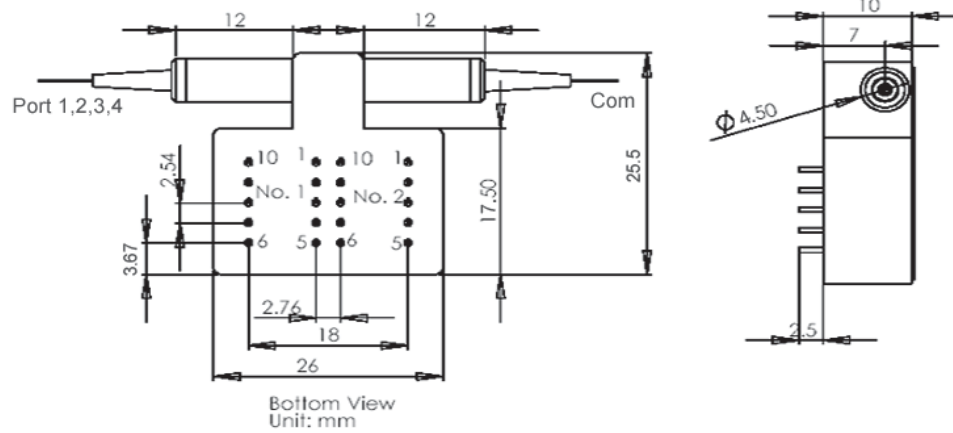
### Performance Specifications

Parameter	Specifications
Channel Wavelength	1310nm , 1550nm
Insertion Loss	≤ 1.1dB
Wavelength Dependent Loss	≤ 0.20dB
Extinction Ratio	≥ 18dB (20dB Typ.)
Channel Cross Talk	≥ 55dB
Return Loss	≥ 50dB
Repeatability	± 0.02dB
Switching Speed (Typ.)	10ms (5ms Typ.)
Operating Voltage	5V
Durability (Cycles)	10 Million
Optical Power	500mW
Fiber Type	Panda PM fiber
Operating Temperature	0 to +70°C
Storage Temperature	-40 to +85°C
Package Dimensions	L26mm x W25.5mm x H10.3mm

Note:

1. The PM fiber and the connector key are aligned to the slow axis.
2. The ER is for fiber ≤ 0.75 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.

## Mechanical Dimensions



## Electrical Pin Configuration

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

### Ordering Information

PMS	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
<b>Option</b>	<b>Operating Wavelength</b>	<b>Port</b>	<b>Grade</b>	<b>Pigtail Style</b>	<b>Fiber Length</b>	<b>In/Out Connector</b>	<b>Working axis</b>	
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	S = Slow axis working B = Both axes working F = Fast axis working	