



1x4 Mechanical Fiberoptic Switch

AC Photonics' MS 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. The switch offers ultra-high reliability and fast switching speed as well as bi-directional performance. The MS fiberoptic switches are true switching solutions for optical networking applications.



Features

- Unmatched Low Cost
- Low Insertion Loss
- Latching or Non Latching
- High 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

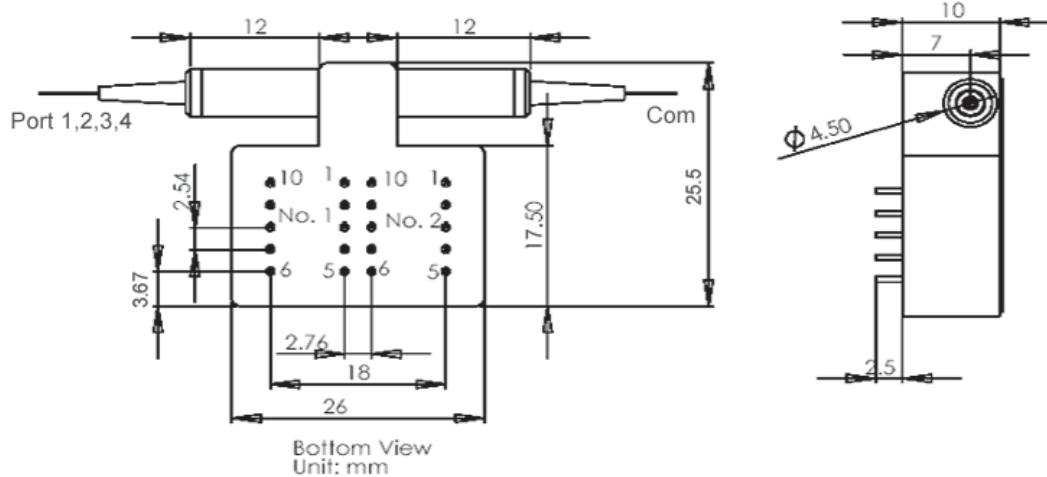
Parameter	Specification	
Operating Wavelength (nm)	1260 ~ 1360 or 1510 ~ 1610	1310/1550±40
Insertion Loss (dB)	≤0.6 (P Grade), ≤0.8(A Grade)	≤0.8 (P Grade), ≤1.0(A Grade)
Wavelength Dependent Loss(WDL)(dB)	≤0.25	≤0.30
PDL (dB)	≤0.1	
Cross Talk (dB)	≥55	
Return Loss (dB)	≥55	
Repeatability(dB)	<±0.02	
Switching Speed(ms)	≤10	
Drive Voltage(v)	5	
Power Handling(mW)	500	
Durability (Cycles)	10 Million	
Operating Temperature (°C)	0 ~ +70	
Storage Temperature(°C)	-40 ~ +85	
Dimensions (mm)	26x25.5x10.3	

Specifications may change without notice.

Ordering Information

MS	□ □	□ □ □ □	□	□	□	□ □
Option	Operating Wavelength	Port	Grade	Pigtail Style	Fiber Length	In/Out Connector
L= Latching N=Non Latching	15=1510~1610nm 13=1260~1360nm 35=1310/1550nm	0104=1x4	P=P Grade A=A Grade	1=Bare Fiber 2=900um Jacket	1=1 Meter 2=2 Meter	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
Latching Type	0 (Reset)	GND	GND	GND	+	Close	Open	Open	Close
	1 (Set)	+	GND	GND	GND	Open	Close	Close	Open
Non-latching Type	0 (Reset)	NC	NC	NC	NC	Close	Open	Open	Close
	1 (Set)	+	NC	NC	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