



# 1x16 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
- High Channel Isolation
- Highly Stable and Reliable
- Epoxy-Free Optical Path

## Application

- 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)	2.0(Max.)	2.3(Max.)
Wavelength Dependent Loss(WDL)(dB)	≤0.25	≤0.3
PDL (dB)	≤0.2	
Cross Talk (dB)	≥50	
Return Loss (dB)	≥50	
Repeatability(dB)	<±0.05	
Switching Speed(ms)	25(Max.)	
+5 VDC Power Supply (V)	5 (Typ.)	
+3.3 VDC Power Supply (V)	3.3 (Typ.)	
+5 VDC Switch Current (mA)	300 (Max.)	
Digital Interface Logic	TTL	
Power Handling(mW)	300	
Durability (Cycles)	10 Million	
Operating Temperature (°C)	0 ~ +70	
Storage Temperature(°C)	-40 ~ +85	
Dimensions (mm)	110(L)x110(W)x23(H)	

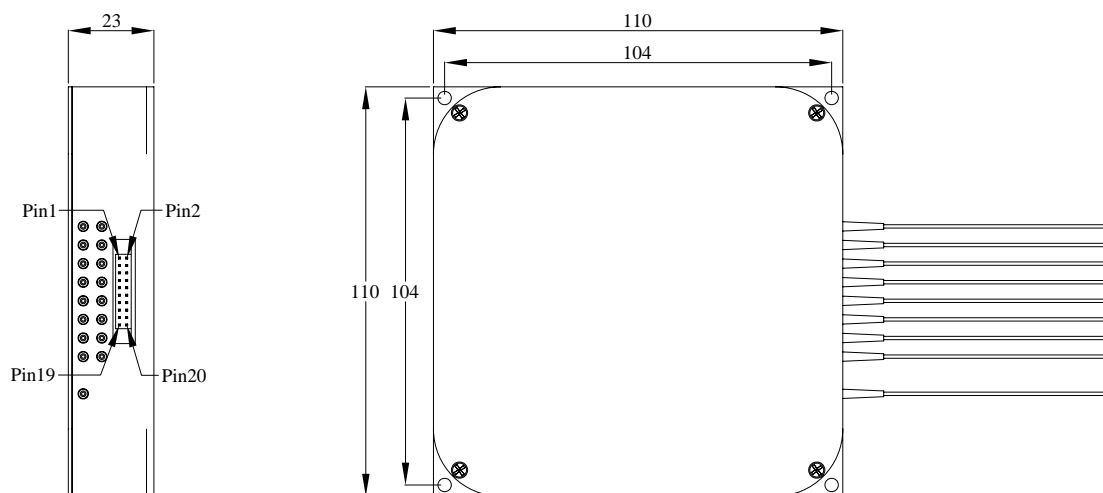
Specifications may change without notice.

## Ordering Information

MS	Option	Operating Wavelength	Port	Grade	Pigtail Style	Fiber Length	In/Out Connector
MS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	L= Latching	15=1510~1610nm 13=1260~1360nm 35=1310/1550nm	0116=1x16	P=P Grade	2=900um Jacket	1=1m 2=2m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC



## Dimensions (mm)



## Electric Configuration

Pin #	1	3	5	7	9	11	13	15	17	19
Name	+5V	+5V	RESERVE	RESERVE	TX	RX	STROBE	BUSY	ERROR	GND
Pin #	2	4	6	8	10	12	14	16	18	20
Name	+3.3V	D0	D1	D2	D3	OUTD0	OUTD1	OUTD2	OUTD3	GND

## Optical Switch Configuration

Input Control Data				Switch Status
D3	D2	D1	D0	
0	0	0	0	C-Port1
0	0	0	1	C-Port2
0	0	1	0	C-Port3
0	0	1	1	C-Port4
0	1	0	0	C-Port5
0	1	0	1	C-Port6
0	1	1	0	C-Port7
0	1	1	1	C-Port8
1	0	0	0	C-Port9
1	0	0	1	C-Port10
1	0	1	0	C-Port11
1	0	1	1	C-Port12
1	1	0	0	C-Port13
1	1	0	1	C-Port14
1	1	1	0	C-Port15
1	1	1	1	C-Port16

