1x8 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

Applications

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

Performance Specifications

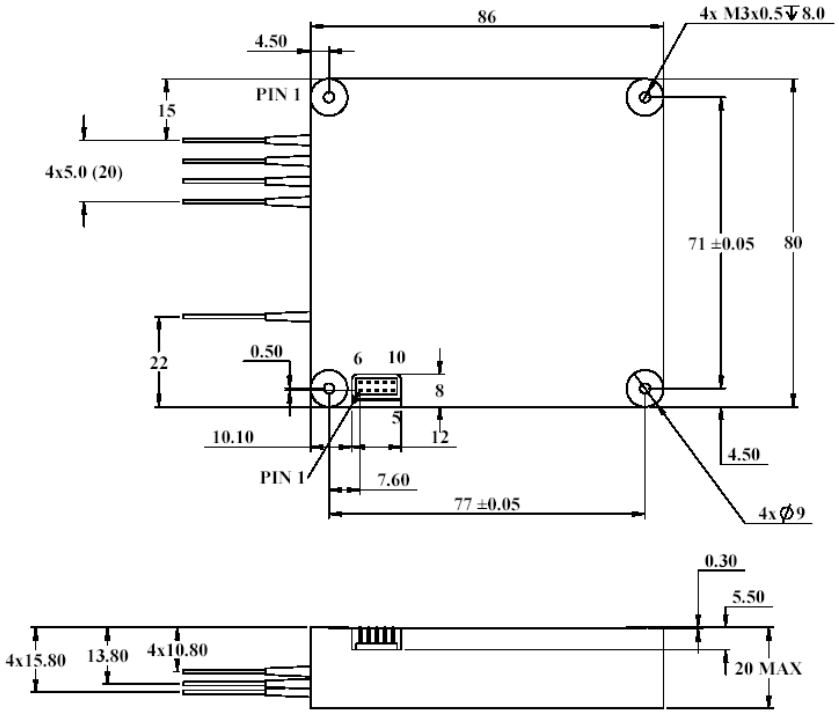
Parameter	Specification	
Operating Wavelength (nm)	1260 ~ 1360 or 1510 ~ 1610	1310/1550±40
Insertion Loss (dB)	1.5(Max.)	1.8(Max.)
Wavelenght Dependent Loss(WDL)(dB)	≤0.25	≤0.3
PDL (dB)	≤0.2	
Cross Talk (dB)	≥55	
Return Loss (dB)	≥55	
Repeatability(dB)	<±0.02	
Switching Speed(ms)	25(Max.)	
+5 VDC Power Supply (V)	5 (Typ.)	
+3.3 VDC Power Supply (V)	3.3 (Typ.)	
+5 VDC Switch Current (mA)	200 (Max.)	
Digital Interface Logic	3.3V CMOS	
Power Handling(mW)	300	
Durability (Cycles)	10 Million	
Operating Temperature (°C)	0 ~ +70	
Storage Temperture(°C)	-40 ~ +85	
Dimensions (mm)	86(L)x80(W)x20(H)	

Specifications may change without notice.

Ordering Information

MS ☐	☐ ☐	☐☐☐☐	☐	☐	☐	☐ ☐
Option	**Operating Wavelength**	**Port**	**Grade**	**Pigtail Style**	**Fiber Length**	**In/Out Connector**
L= Latching	15=1510~1610nm 13=1260~1360nm 35=1310/1550nm	0108=1x8	P=P Grade	1=Bare Fiber 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	2	3	4	5	6	7	8	9	10
Name	+5V	GND	D0	D1	D2	_STR	BUSY	_ERR	GND	+3.3V

Optical Switch Configuration

Data Input	D0	0	1	0	1	0	1	0	1
	D1	0	0	1	1	0	0	1	1
	D2	0	0	0	0	1	1	1	1
Output Port	Chan	1	2	3	4	5	6	7	8

Back to products list