

## 1x8 Mechanical Fiberoptic Switch



ACP's MS 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 proprietary configuration 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 solution for optical networking applications.

### Key Features

- Unmatched Low Cost
- Low Insertion Loss
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path
- Latching or Non-Latching

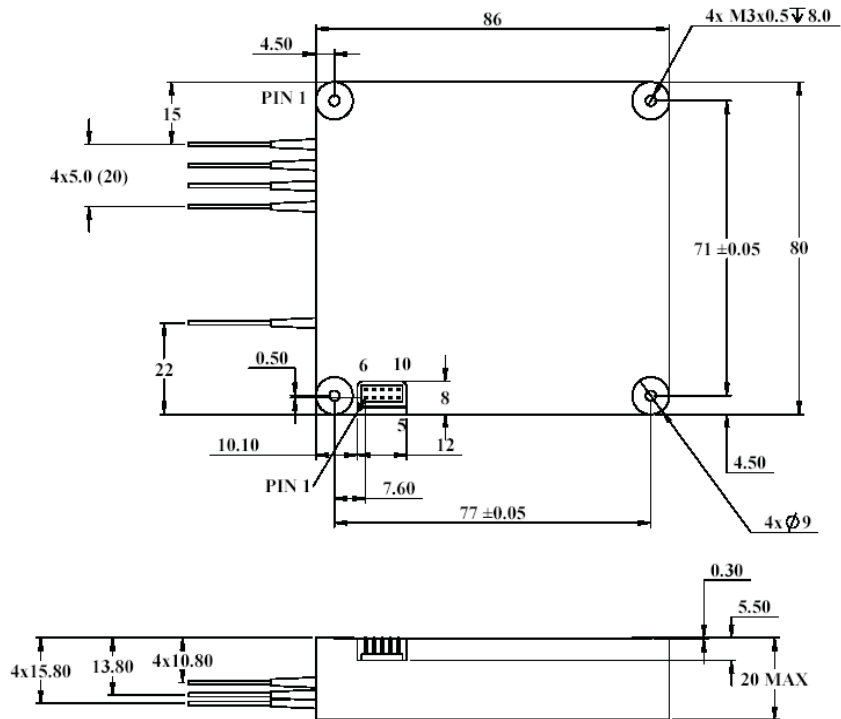
### Applications

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

### Performance Specifications

Parameter	Specifications	
Channel Wavelength	1260nm to 1360nm or 1510nm to 1610nm	1310nm / 1550nm ± 40nm
Insertion Loss	≤ 1.5dB (Max.)	≤ 1.8dB (Max.)
Wavelength Dependent Loss	≤ 0.25dB	≤ 0.30dB
Polarization Dependent Loss	≤ 0.2dB	
Channel Cross Talk	≥ 55dB	
Return Loss	≥ 55dB	
Repeatability	± 0.05dB	
Switching Speed (Typ.)	≤ 25ms	
+5 VDC Power Supply	5V (Typ.)	
+3.3 VDC Power Supply	3.3V (Typ.)	
+5 VDC Switch Current	200mA (Max.)	
Digital Interface Logic	3.3V CMOS	
Durability (Cycles)	10 Million	
Optical Power	300mW	
Operating Temperature	0 to +70°C	
Storage Temperature	-40 to +85°C	
Fiber Type	SMF-28	
Fiber Length	1.0m ± 0.1m	
Package Dimensions	L86mm x W80mm x H20mm	

### Mechanical Dimensions



### Electrical Pin 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	0	1	1	1
Output	Chan	1	2	3	4	5	6	7	8

### Ordering Information

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"/>	<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>
L = Latching	15 = 1510 to 1610nm 13 = 1260 to 1360nm 35 = 1310 to 1550nm		0108 = 1x8	P = P Grade	1 = Bare Fiber 2 = 900um Jacket	1 = 1.0m 2 = 2.0m	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC