

2x2 Mechanical Fiberoptic Switch(Latching or Non-Latching)



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

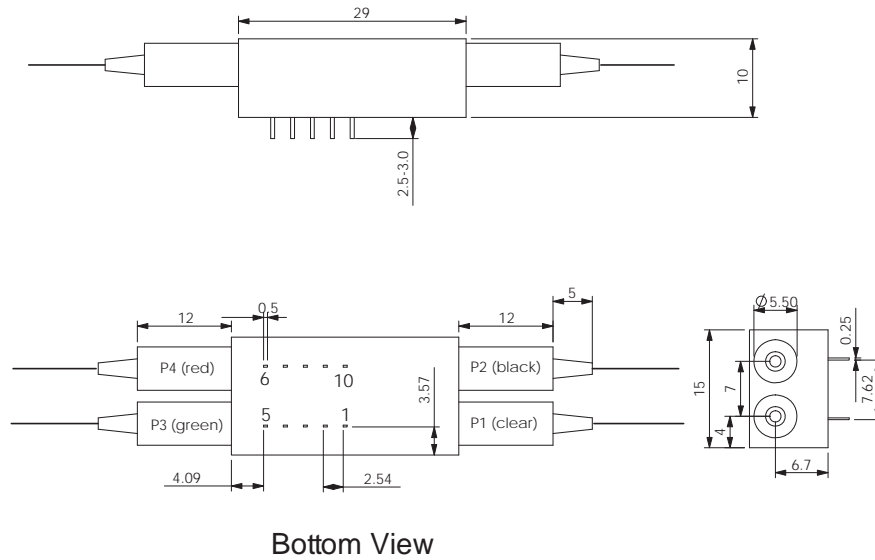
Applications

- 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	1310nm / 1550nm ± 40nm	1310nm ± 40nm and 1550nm ± 40nm Dual Window
Insertion Loss	0.6dB(Typ.), 1.0dB(Max.)	0.8dB(Typ.), 1.2dB(Max.)
Wavelength Dependent Loss	≤ 0.20dB	≤ 0.30dB
Polarization Dependent Loss	≤ 0.15dB	
Channel Cross Talk	≥ 55dB	
Return Loss	≥ 60dB	
Repeatability	± 0.02dB	
Switching Speed (Typ.)	10 ms	
Operating Voltage	4.5 to 5.5V	
Durability (Cycles)	10 Million	
Optical Power	500mW	
Operating Temperature	0 to +70°C	
Storage Temperature	-40 to +85°C	
Package Dimensions	L29mm x W15mm x H10mm	

Mechanical Dimensions



Electrical Pin Configuration

Optical Path		Port1~ Port3 and Port2 ~ Port4		Port1~ Port4 and Port2~ Port3	
Electric Drive	Non-Latching			Pin1	Pin10
	Latching	Pin10	Pin6	Pin1	Pin5
		V+	GND	V+	Gnd
Sensor Status	Non-Latching and Latching	Pin2-3, Pin8-9 Close		Pin2-3, Pin8-9 Open	
		Pin3-4, Pin7-8 Open		Pin3-4, Pin7-8 Close	

Parameter	Typical	Minmum	Maxmum
Switch Voltage	5V	4.5V	5.5V
Switch Current	> 40mA		
Pulse Duration	> 25ms		

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"/>
Option	Operating Wavelength	Port	Grade	Pigtail Style	Fiber Length	In/Out Connector	
L = Latching N = Non-Latching	15 = 1510 to 1610nm 13 = 1260 to 1360nm 35 = 1310 to 1550nm	0202 = 2x2	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	