Dual 1x2 Mechanical Optical Switch Spec



The dual 1x2 fiber optic switch connects optical channels by directing or blocking an incoming optical signal into the output fiber. This is achieved using a patent pending opto-mechanical configuration and activated via an electrical control signal.

A latching version preserves the selected optical path after the drive signal has been removed, while the non-latching versions default to either the open or closed state when power is removed. The switch has integrated electrical position sensors.

The new material based advanced design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as unmatched low cost.

Features	Application
Low Insertion Loss	Metro network
Wide wavelength range	Laboratory research and development
Low channel crosstalk	Monitoring system
Lock or Non-lock	Dynamic configuration distribution multiplexing
High stability and reliability	

Performance Specifications

Parameters	Specifications	Unit		
Operating Wavelength	1260~1620(SM)、850(MM)	nm		
Insertion Loss	≤1.0	dB		
Wavelength Dependent Loss	≤0.25	dB		
Polarization Dependent Loss	≤0.05	dB		
Temperature Dependent Loss	≤0.25	dB		
Return Loss	SM≥50 MM≥30	dB		
Cross Talk	SM≥55 MM≥35	dB		
Switch Time	≤8	ms		
Repeatability	≤±0.02	dB		
Durability	≥10 ⁷	times		
Operating Voltage	3 or 5	V		
Switch Type	Non-Latching/Latching			
Operating Temperature	-20~+70	°C		
Storage Temperature	-40~+85	°C		
Optical Power	≤500	mW		
Dimension	27.0L×12.0W×8.2H	mm		

* Notes: 1. Insertion Loss tested without connector.

Hirundo Optics Inc

Factory:2nd Floor, Building 6, #16 Xinfa Road, Southern Cable Industrial Park, Rongli Ronggui Street, Shunde District, Foshan city, Guangdong 528305 China Tel: 0757-26619220 Email: info@hirundo-link.com Website: https://www.hirundo-link.com

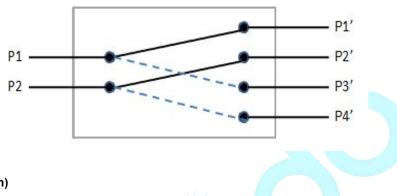
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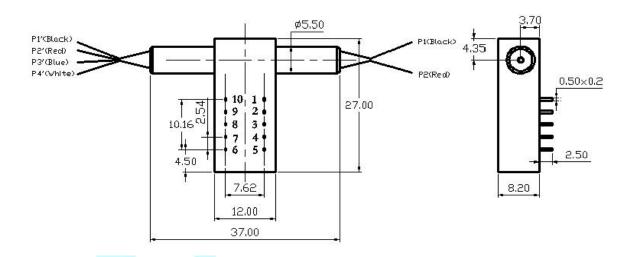
Pin Configurations

Туре	Optical Path		Electri	c Drive		Status Sensor				
D1×2		Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9	
	P1-P3′、P2-P4′			GND	V+	Close	Open	Open	Close	
Latching	P1-P1′、P2-P2′	V+	GND			Open	Close	Close	Open	
	P1-P3′、P2-P4′					Close	Open	Open	Close	
Non-Latching	P1-P1′、P2-P2′	V+			GND	Open	Close	Close	Open	

Optical Route



Dimensions Diagram(Unit:mm)



Order information:

SW	SW X Type		XXXX Central Wavelength		X Fiber Type		X Fiber Jacket		X Fiber Length		Х		Х			X Drive Voltage	
											C	Connector		Contrel Type			
	1	1X1	0850	850	0	SM, 9/125	0	250um Bare Fiber	0	0.5m	0	none	L	Latching	3	3V	
	2	1X2	0980	980	1	MM, 50/125	1	0.9mm Loose	1	1.0m	1	SC/UPC	N	Non-latching	5	5V	
	3	1X2T	1060	1060	2	MM, 62.5/125	S	Special	2	1.5m	2	SC/APC			S	Special	S
	4	2X2B	1310	1310	3	PM			3	2.0m	3	FC/UPC					N
	5	2X2T	1480	1480	s	Special			4	2.5m	4	FC/APC					
	6	1X4	1550	1550					5	3.0m	5	LC/UPC					
	7	1X6	1315	1310&1550					6	3.5m	6	LC/APC					-
	8	1X8	1625	1625					7	0.7m	7	ST/UPC					-
	s	Special	0005	Special					8	1.2m	8	E2000					-
									9	2.7m	s	Special					
									S	Special							

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