

2x2A Mechanical Optical Switch Spec



The mechanical series fiber optical switches are designed on transmission optical principle. The prism and relay are the main parts in the optical principle. It's widely used for OADM system, OXC, monitor system and experience.

Features

- Low Insertion Loss
- Wide wavelength range
- Low channel crosstalk
- Lock or Non-lock
- High stability and reliability

Application

- Metro network
- Laboratory research and development
- Monitoring system
- Dynamic configuration distribution multiplexing



Performance Specifications

Parameters	Specifications	Unit
Operating Wavelength	1260~1620(SM)、850(MM)	nm
Insertion Loss	≤0.8	dB
Wavelength Dependent Loss	≤0.25	dB
Polarization Dependent Loss	≤0.05	dB
Temperature Dependent Loss	≤0.20	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	times
Operating Voltage	3 or 5	V
Switch Type	Non-Latching/Latching	
Operating Temperature	-20~ + 70	°C
Storage Temperature	-40~ + 85	°C
Power Port	/	4 Pin
Optical Power	≤500	mW
Dimension	(L)55×(W)26×(H)10.8(±0.2)	mm

* Notes: 1. Insertion Loss tested without connector.

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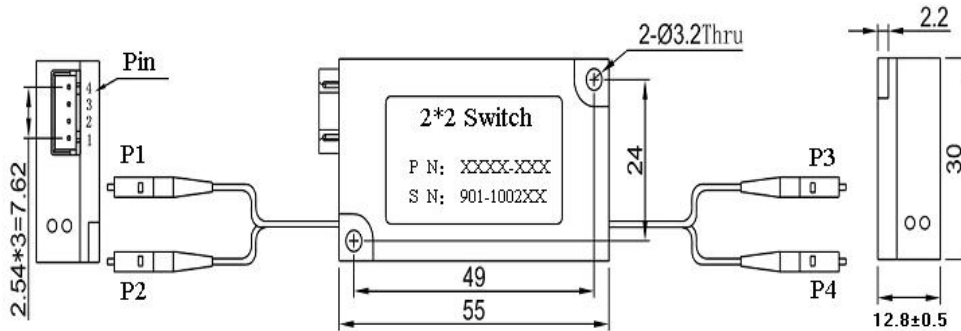
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Pin Configurations

Type	Electric Drive		Status Sensor	Optical Route	
	Pin1	Pin2	Pin3-4		
2x2A	Pin1	Pin2	Pin3-4		
Non-latching	V+	GND	Close	P1-P3、P2-P4	
	--	--	Open	P1-P4、P2-P3	

Dimensions Diagram(Unit:mm)



Order information:

SW (Switch) PN: SW-XXXXXXXX-XX (SW+11 Code+2 Serial Number)

SW	X	XXXX	X	X	X	X	X	X	XX
	Type	Central Wavelength	Fiber Type	Fiber Jacket	Fiber Length	Connector	Control Type	Drive Voltage	
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
4	2X2B	1310	1310	3 PM		3 2.0m	3 FC/UPC		
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	000S	Special			8 1.2m	8 E2000		
						9 2.7m	S Special		
						S Special			S N

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