Dual 2x2B Mechanical Optical Switch Spec

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The Dual 2x2 Bypass Mechanical Fiber optic switch is an integrated single device with 8 fiber ports. Based on Ephotics' s pending patent, the switch is designed especially for protection and restoration applications. The switch is activated by a 5V pulse between two states, and the latching operation preserves the selected optical path after the drive signal has been removed. The switch has integrated electrical contact based position sensors. The simple design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as an unmatched low cost. Electronic driver is available for this series of switches.

Application

Metro network

Monitoring system

Laboratory research and development

Dynamic configuration distribution multiplexing

Features

Low Insertion Loss Wide wavelength range Low channel crosstalk Lock or Non-lock 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	≤0.20	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 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.

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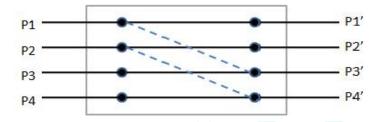
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Pin Configurations

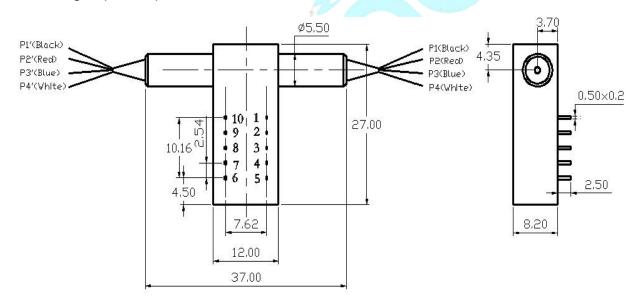
Туре	Optical Path		Electric	Drive		Status Sensor						
D2×2B		Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9			
	Port 1 \rightarrow Port 1' Port 2 \rightarrow Port 2' Port 3 \rightarrow Port 3' Port 4 \rightarrow Port 4'	V+	GND			Open	Close	Close	Open			
Latching	Port 1 \rightarrow Port 3' Port 2 \rightarrow Port 4'			GND	V+	Close	Open	Open	Close			
Non-Latchin g	Port 1 \rightarrow Port 1' Port 2 \rightarrow Port 2' Port 3 \rightarrow Port 3' Port 4 \rightarrow Port 4'	V+			GND	Open	Close	Close	Open			
	Port 1 \rightarrow Port 3' Port 2 \rightarrow Port 4'					Close	Open	Open	Close			

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Optical Route



Dimensions Diagram(Unit:mm)



Order information:

SW (Swite	ch)	PN: SW-XXXX	XXXX-X	X (SW+11 Code	+2 Se	rial Number)											_
SW	X		X XXXX			Х		Х		Х		Х		X		Х	
	Туре		Type Central Waveleng		Fiber Type		Fiber Jacket		Fiber Length		Connector		Contrel Type		E	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	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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