

2x2 Bypass Mechanical Fiber Switch

Features

- Compact Size
- High crosstalk
- Low Insertion Loss

Applications

- Optical Cross and Connection System
- Network Monitor
- Optical Fiber Ring Protection

Specifications

Parameters	Unit	2X2B
Operation Wavelength Range	nm	1260~1650
Test Wavelength	nm	1310/1550
Insertion Loss ^{1,2}	dB	≤0.8 (Typ 0.6)
Return Loss ^{1,2}	dB	≥50
Cross Talk ¹	dB	≥55
PDL	dB	≤0.05
WDL	dB	≤0.25
Switch Time	ms	≤8
Repeatability	dB	±0.05
Durability	cycles	≥10 Million
Fiber Type		SMF-28e
Operating Temperature	°C	-20 ~ +70
Storage Temperature	°C	-40 ~ +85
Dimensions (LxWxH)	mm	20×9.5×8.5

1. Within operating temperature and SOP.

2. Excluding Connectors.

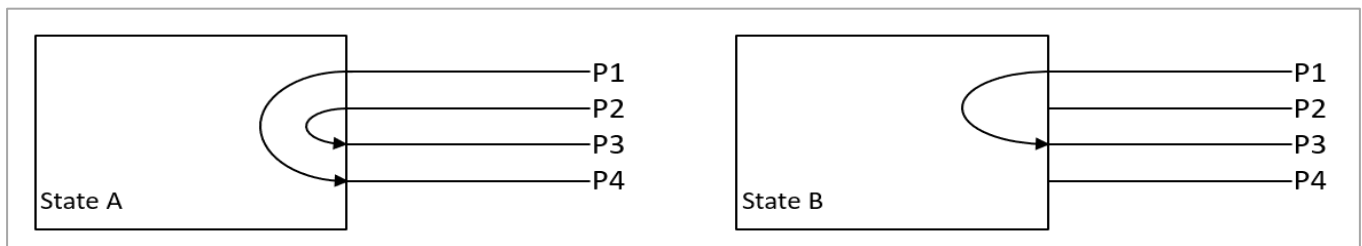
Electrical Drive

Operating Voltage	V	3 or 5
Voltage Pluse Width(Latching)	ms	≥20
Optical Power	mW	≤500

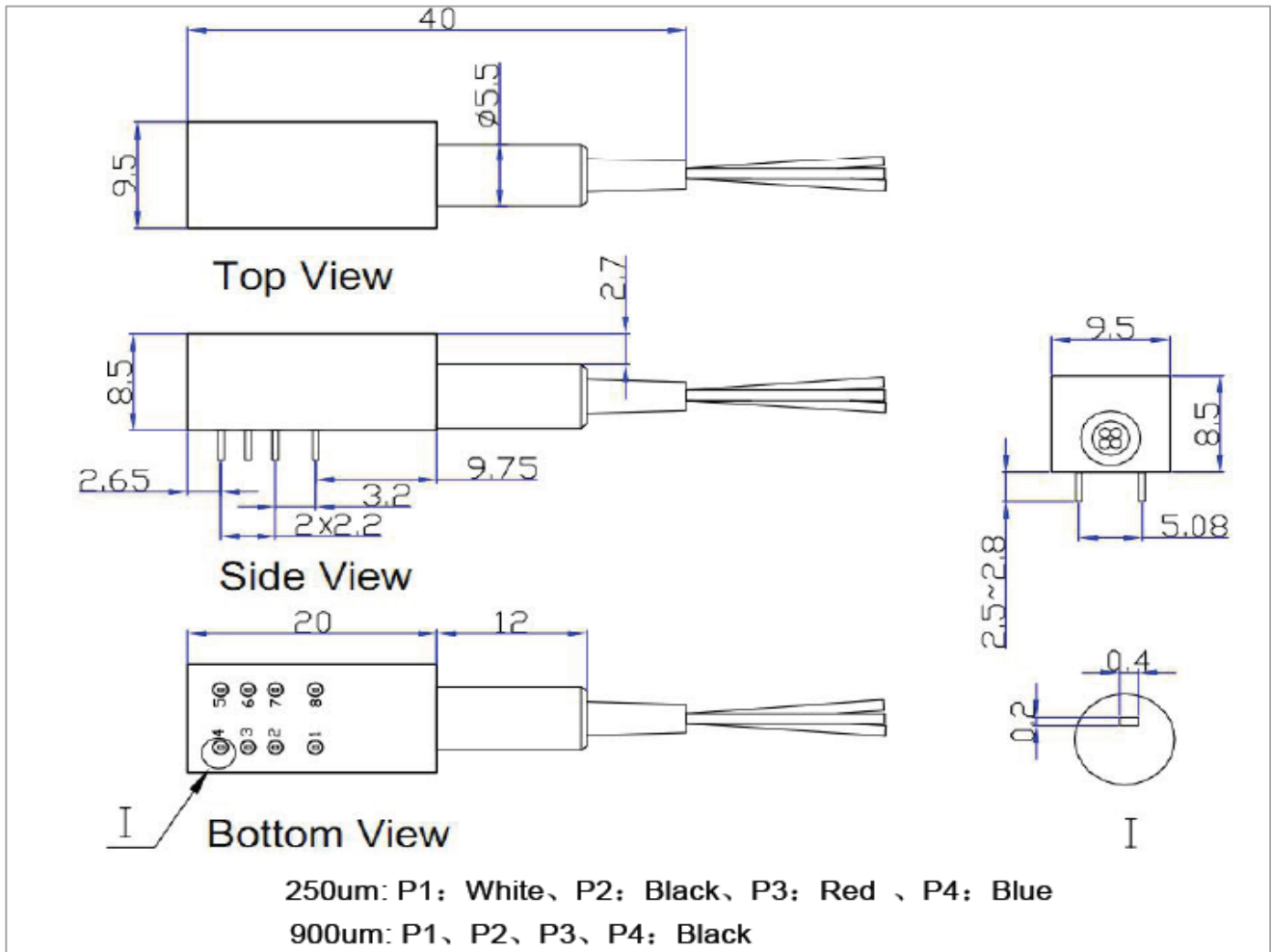
Pin Configurations

Type	State	Optical Route	Electric Drive		Status Sensor			
			Pin 1	Pin 8	Pin 2-3	Pin 3-4	Pin 5-6	Pin 6-7
2x2B			Pin 1	Pin 8	Pin 2-3	Pin 3-4	Pin 5-6	Pin 6-7
Latching	A	P1-P4, P2-P3	5V Pulse	GND	Open	Close	Close	Open
	B	P1-P3	GND	5V Pulse	Close	Open	Open	Close
Non-Latching	A	P1-P4, P2-P3	5V Pulse	GND	Open	Close	Close	Open
	B	P1-P3	--	--	Close	Open	Open	Close

Optical Route



Package Dimension



Ordering Information

OSW- ①①①①-②②②②-③-④④④-⑤-⑥-⑦⑦-⑧⑧⑧⑧⑧⑧⑧⑧⑧⑧

①	Port Type	2x2B;
②	Wavelength	1310; 1550; 1310/1550;
③	Type	L=Latching; N=Non-Latching;
④	Pigtail Type	250=250um Fiber; 900=900um Loose Tube;
⑤	Fiber Type	1=SMF-28;
⑥	Fiber Length	1= 1m;
⑦	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;
⑧	Package	20x9.5x8.5;