Dual 2x2 Bypass Optical Switch

Features

- Low Insertion Loss
- Wide Wavelength Range
- Low Crosstalk
- High Stability, High Reliability
- Epoxy-free on Optical Path
- Latching and Non-latching

Applications

- R&D in Laboratory
- System Monitoring
- OADM
- MAN (Metropolitan Area Network)

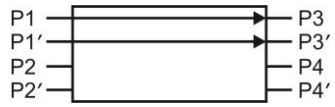
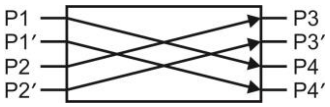
Specifications

Parameters	Unit	SM/MM	
Wavelength Range	nm	850±40 / 1300±40	1260 ~ 1650
Test Wavelength	nm	850 / 1300	1310 / 1550
Insertion Loss	dB	Typ: 1.0 Max: 1.5	
Return Loss	dB	MM ≥ 30 SM ≥ 50	
Crosstalk	dB	MM ≥ 35 SM ≥ 55	
PDL	dB	≤0.05	
WDL	dB	≤0.25	
Repeatability	dB	≤±0.02	
Operating Voltage	V	3.0 or 5.0	
Durability	Cycles	≥ 10 Million	
Switching Time	ms	≤8	
Optical Power	mW	≤500	
Operating Temperature	℃	-20 ~ +70	
Storage Temperature	℃	-40 ~ +85	
Relative Humidity	%	5 ~ 95	
Weight	g	14	
Dimension	mm	(L)27.0×(W)12.6×(H)8.2 ±0.2	

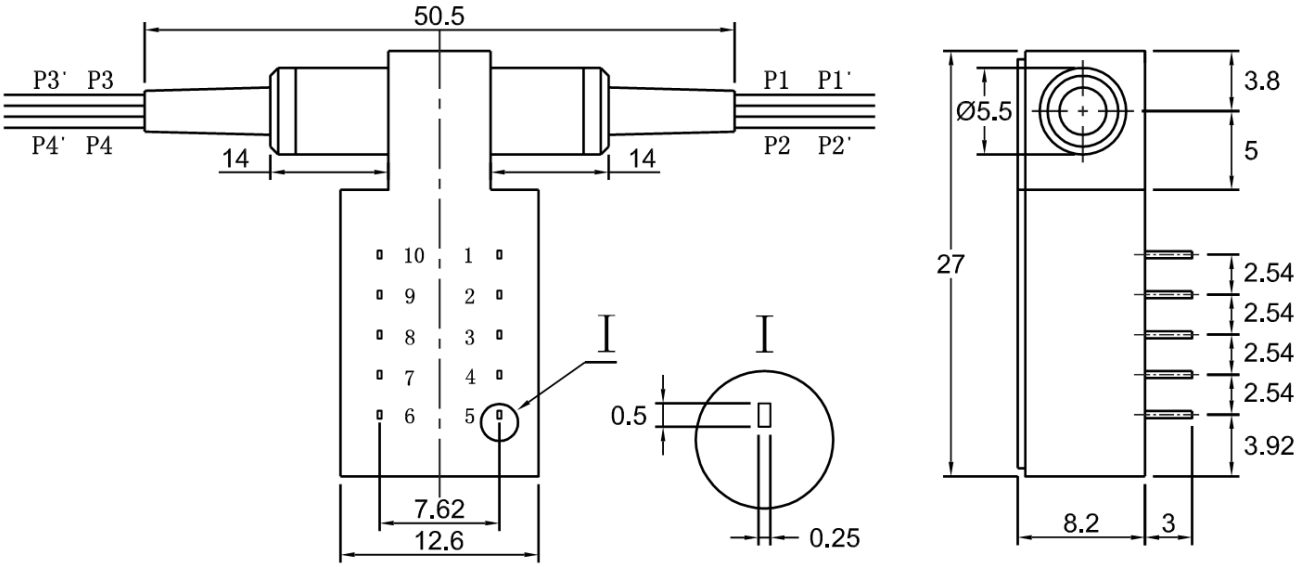
Pin Configurations

Type	State	Optical Route	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
Latching	A	P1-P3 P1'-P3'	--	--	GND	V+	Close	Open	Open	Close
	B	P1-P4, P2-P3 P1'-P4', P2'-P3'	V+	GND	--	--	Open	Close	Close	Open
Non-latching	A	P1-P3 P1'-P3'	--	--	--	--	Close	Open	Open	Close
	B	P1-P4, P2-P3 P1'-P4', P2'-P3'	V+	--	--	GND	Open	Close	Close	Open

Optical Route

State A	State B
	

Dimension



P1、P1'：White　　P2、P2'：Black　　P3、P3'：Red　　P4、P4'：Blue

Electrical Specification

Specifications	Voltage	Current	Resistance
5V latching	4.5~5.5 V	36~44 mA	125 Ω
5V non-latching	4.5~5.5 V	26~32 mA	175 Ω
3V latching	2.7~3.3 V	54~66 mA	50 Ω
3V non-latching	2.7~3.3 V	39~47 mA	70 Ω

Ordering Information

DBSW	Port Type	Operating Voltage	Wavelength	Mode	Pigtail Type	Fiber Type	Length	Connector
	2X2	3V 5V	1550 1310 850	N=Non-Latching L=Latching	900=900um loose tube	1=SMF-28e 2=50/125 3=62.5/125	1=1.0m	NE=None FA=FC/APC FC=FC/PC SA=SC/APC SC=SC/PC LC=LC/UPC XX: Specify