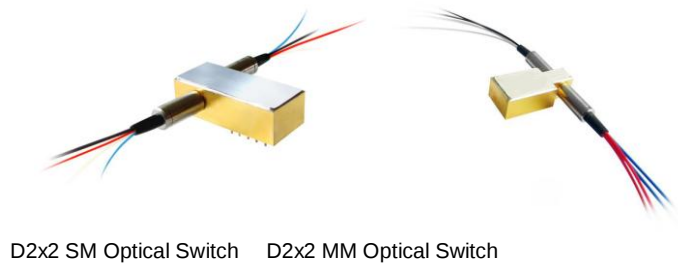


D2x2 Optical Switch

Features

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



D2x2 SM Optical Switch D2x2 MM Optical Switch

Applications

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

FSW-D2x2 Optical Switch, which is famous for its high performance, low insertion loss and compact dimension: (L)28.5×(W)12.6×(H)8.7mm (SM) ; (L)27.0×(W)12.6×(H)8.2mm (MM) . It is an ideal component for OADM , OXC , system monitoring and protection. With compact package, it can be easy to integrate into a high density optical communication system.

D2×2 SM Specifications

Parameters	Unit	FSW-D2×2-S
Wavelength Range	nm	1260 ~ 1650
Test Wavelength	nm	1310 / 1550
Insertion Loss 1, 2	dB	Typ: 1.0 Max: 1.5
Return Loss 1, 2	dB	≥ 50
Crosstalk 1	dB	≥ 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	℃	-5 ~ +70
Storage Temperature	℃	-40 ~ +85
Relative Humidity	%	5 ~ 95
Weight	g	16
Dimension	mm	(L)28.5×(W)12.6×(H)8.7 ±0.2
Note: 1 Within operating temperature and SOP. 2 Excluding Connectors.		

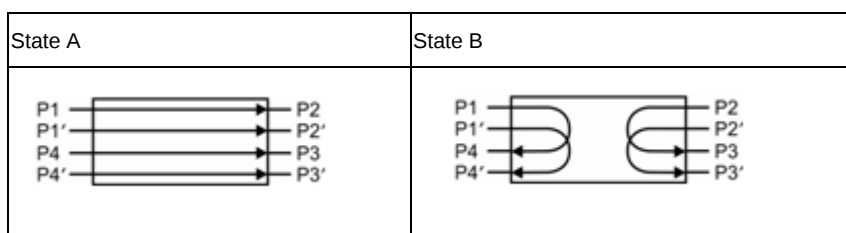
D2×2 MM Specifications

Parameters	Unit	FSW-D2×2-M	
Wavelength Range	nm	850±40 / 1300±40	1470 ~ 1650
Test Wavelength	nm	850 / 1300	1550
Insertion Loss 1, 2	dB	Typ: 1.0 Max: 1.5	
Return Loss 1, 2	dB	≥ 30	
Crosstalk 1	dB	≥ 35	
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	℃	-5 ~ +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	
Note: 1 Within operating temperature and SOP.			
2 Excluding Connectors.			

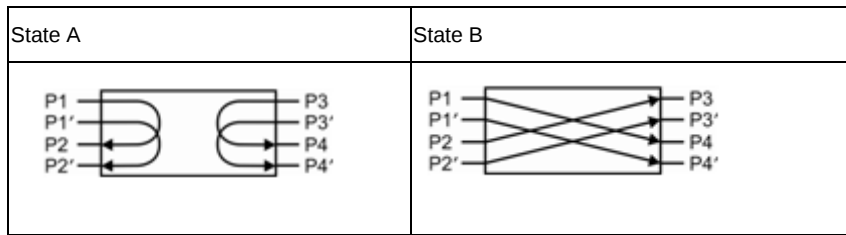
Pin Configurations

Type	State	Optical Route	Electric Drive				Status Sensor			
D2×2			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	A	P1-P2 , P3-P4	--	--	GND	V+	Close	Open	Open	Close
		P1'-P2' , P3'-P4'								
	B	P1-P4 , P3-P2	V+	GND	--	--	Open	Close	Close	Open
		P1'-P4' , P3'-P2'								
Non-latching	A	P1-P2 , P3-P4	--	--	--	--	Close	Open	Open	Close
		P1'-P2' , P3'-P4'								
	B	P1-P4 , P3-P2	V+	--	--	GND	Open	Close	Close	Open
		P1'-P4' , P3'-P2'								

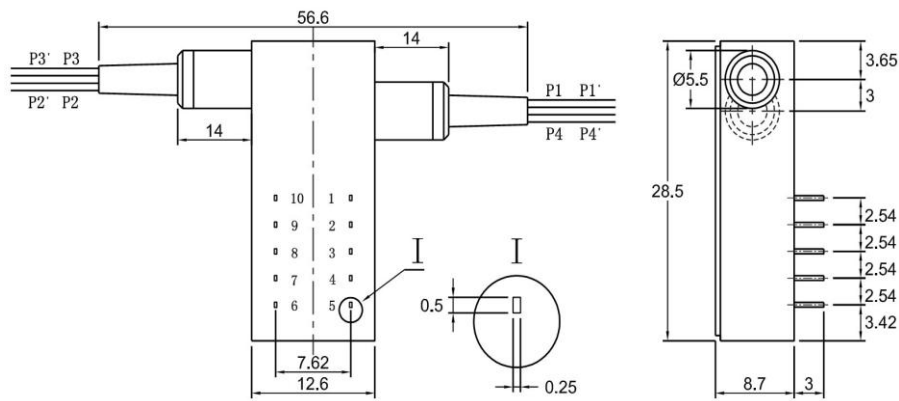
D2×2 SM Optical Route



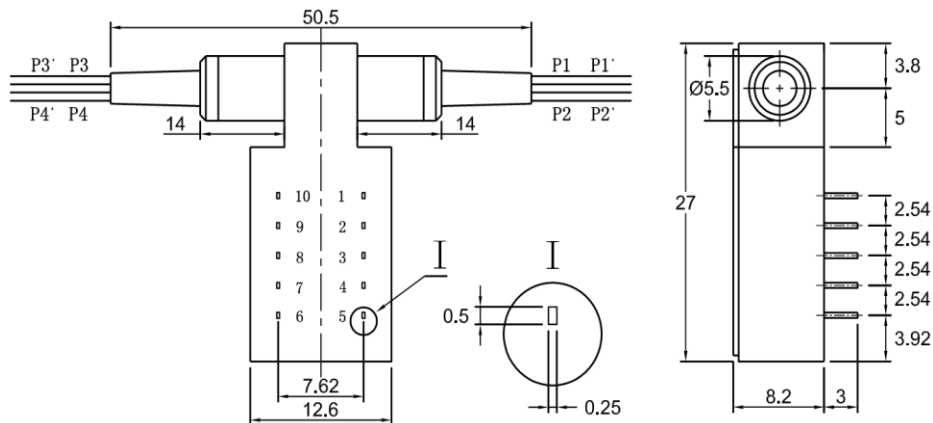
D2×2 MM Optical Route



D2×2 SM Dimension



D2×2 MM Dimension



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: FSW-D2×2-A-B-C-D-E-F-G

A	B	C	D	E	F	G
Fiber Type	Operating Voltage	Switch Type	Test Wavelength	Tube Type	Fiber Length (Include connector)	Connector
SM:SM,9/125	3: 3V	L: Latching	850: 850nm	25:250um	05: 0.5m±5cm	OO:None
M5:MM,50/125	5: 5V	N: Non-latching	1310: 1310nm	90:900um	10: 1.0m±5cm	FP: FC/PC
M6:MM,62.5/125			1550: 1550nm	X: Others	15: 1.5m±5cm	FA: FC/APC
X:Others			1310/1550:1310/1550nm		X: Others	SP: SC/PC
			X:Others			SA: SC/APC
						STP: ST/PC
						STA: ST/APC
						LP: LC/PC
						LA: LC/APC
						X: Others