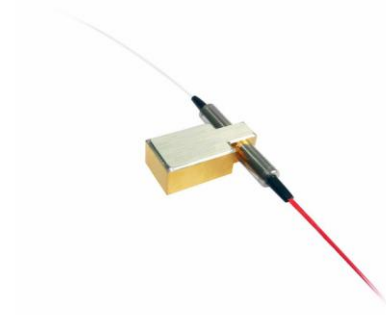


1x1 Optical Switch

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)

FSW-1x1 Optical Switch, which is famous for its high performance, low insertion loss and compact dimension: (L)27.0×(W)12.6×(H)8.2mm. 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.

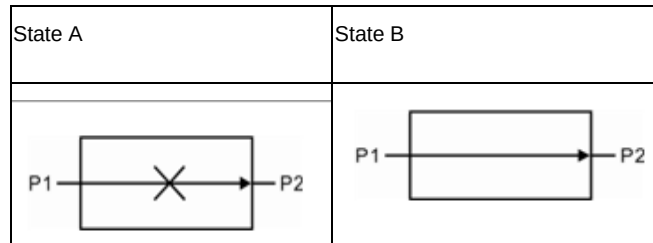
Specifications

Parameters	Unit	FSW-1×1	
Wavelength Range	nm	850±40 / 1300±40	1260 ~ 1650
Test Wavelength	nm	850 / 1300	1310 / 1550
Insertion Loss 1,2	dB	Typ: 0.5 Max: 0.8	Typ: 0.4 Max: 0.6
Return Loss 1, 2	dB	MM ≥ 30 SM ≥ 50	
Crosstalk 1	dB	MM ≥ 65 SM ≥ 70	
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	°C	-20 ~ +70	
Storage Temperature	°C	-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.			

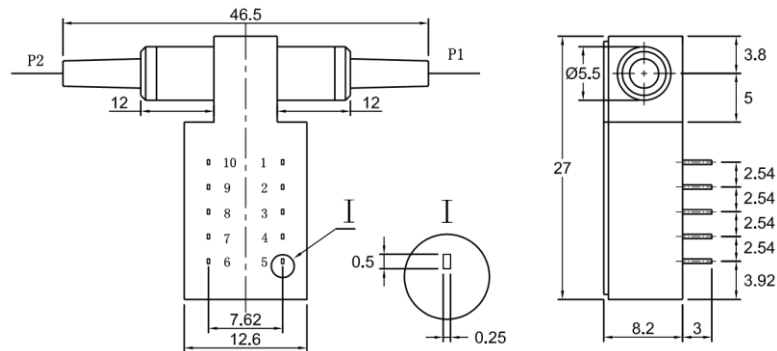
Pin Configurations

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

Optical Route



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-1×1-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,			1550: 1550nm	X: Others	15: 1.5m±5cm	FA: FC/APC
62.5/125			1310/1550:1310/1550nm		X: Others	SP: SC/PC
X: Others			X:Others			SA: SC/APC
						STP: ST/PC
						STA: ST/APC
						LP: LC/PC
						LA: LC/APC
						X: Others