

受控 (1)

Product Specification

Product Name: Micro Optical Switch

Model: SUN-FSW-1×2GL

File Number: OSW-0023

Version: 1.0

Issuing Date: 2025-03-03

Prepared	Checked	Approved
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Specification Revision Record

Date	Version	Page	Revision description	Prepared	Approved

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● 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)
- Network Security and Monitoring



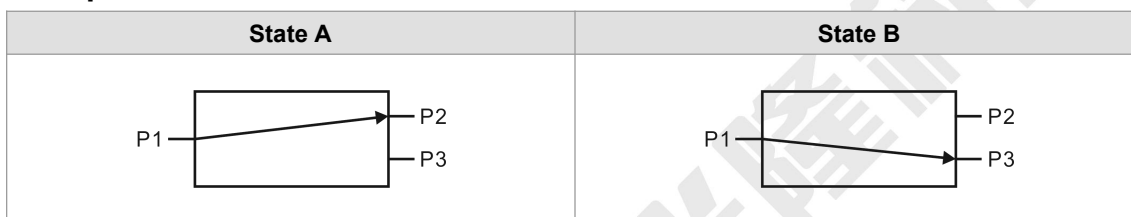
● Specifications

Parameters	Unit	SUN-FSW-1×2GL	
Wavelength Range	nm	850±40 / 1300±40	1260 ~ 1650
Test Wavelength	nm	850 / 1300	1310 / 1550
Insertion Loss ^{1, 2}	dB	≤ 0.8	
Return Loss ¹	dB	MM ≥ 30	SM ≥ 50
Crosstalk ¹	dB	MM ≥ 35	SM ≥ 55
PDL	dB	≤ 0.05	
WDL ³	dB	≤ 0.3	
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	
Dimension	mm	(L)27.0×(W)12.0×(H)8.4 ±0.2	
Note: ¹ Within operating temperature and SOP. ² Excluding connectors, 0.2dB for one pair connectors. ³ Testing within the test wavelength range.			

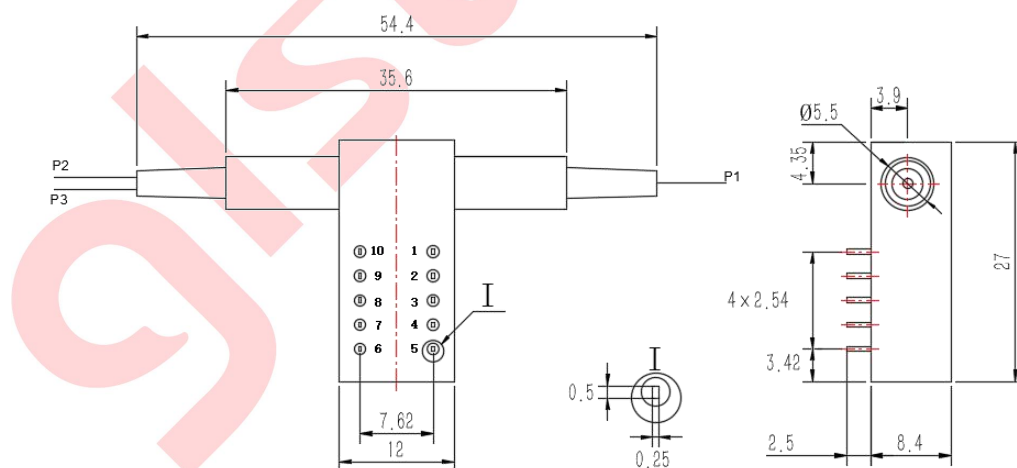
● Pin Configurations

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

● Optical Route



● Dimension



Bottom View

Right Side View

P1: White P2: Black P3: Red

◎ Ordering Information:

SUN-FSW-1×2GL-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			8513: 850/1310nm	X: Others	15: 1.5m±5cm	FA: FC/APC
X: Others			1550: 1550nm		X: Others	SP: SC/PC
			1315: 1310/1550nm			SA: SC/APC
			X: Others			STP: ST/PC
						LP: LC/PC
						LA: LC/APC
						DLP: Duplex LC/PC
						X: Others