

# Product Specification

Product Name: Relay Optical Switch

Model: 7201-1\*1

File Number: SPEC0003AE1

Version: A0

Issuing Date: 2024/10/26

Specification Revision Record

Date	Version	Page	Revision description	Prepared	Approved
24/10/26	A0	4	First release	Wenhui.hu	Yong.shi

## ⑨ Features Product Description

Optical Switch, which is famous for its high performance, low insertion loss and compact dimension. 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.

### ⑨ Features

- 1.Low Insertion Loss
- 2.Wide Wavelength Range
- 3.Low Crosstalk
- 4.High Stability, High Reliability
- 5.Epoxy-free on Optical Path
- 6.Latching and Non-latching

### Applications

- 1.R&D in Laboratory
- 2.System Monitoring
- 3.OADM
- 4.MAN (Metropolitan Area Network)

## ⑨ Specifications

Parameters	Unit	OSW1*1	
Wavelength Range	nm	850±40 / 1300±40	1260 ~ 1650
Test Wavelength	nm	850 / 1300	1310 / 1550
Insertion Loss <sup>1,2</sup>	dB	Typ: 0.6    Max: 1.0	Typ: 0.6    Max: 1.0
Return Loss <sup>1,2</sup>	dB	MM ≥ 30	SM ≥ 50
Crosstalk <sup>1</sup>	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	Typ: 3	Max: 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	
<b>Note:</b>		<b>1.Within operating temperature and SOP.</b> <b>2.Excluding Connectors.</b>	

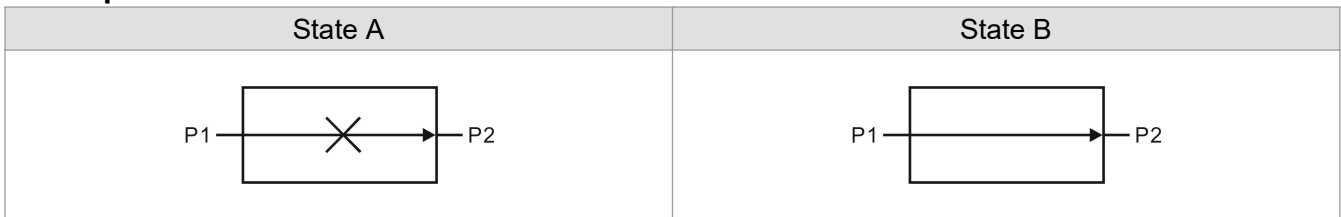
**Pin Configurations**

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

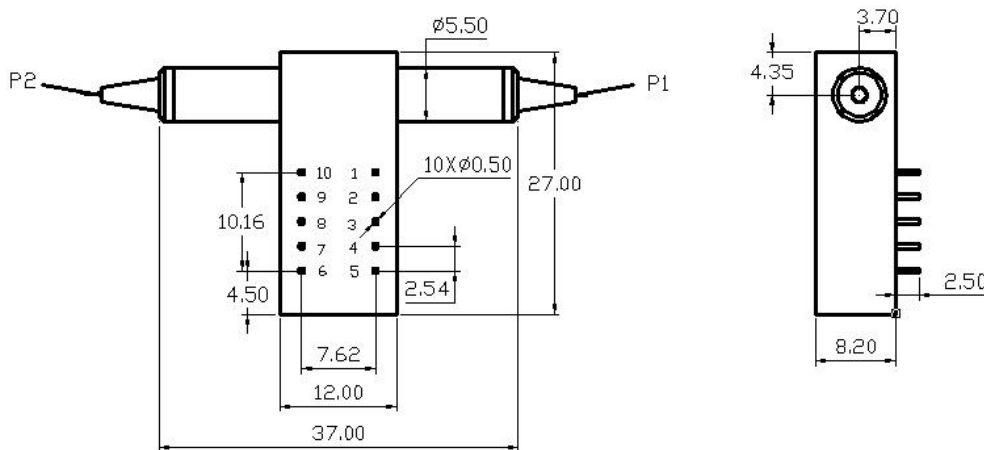
**Electrical Specification**

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

**Optical Route**



**Dimension**



**Ordering Information: GP-7201-1\*1-A-B-C-D-E-F-G**
**Example: GP-7201-1\*1-SM-FS-5-N-90-10-FA**

A	B	C	D	E	F <sup>1</sup>	G
Fiber Type	Work Wavelength	Operating Voltage	Switch Type	Tube Type	Fiber Length	Connector
<b>SM:</b> SM, 9/125 <b>M5:</b> MM, 50/125 <b>M6:</b> MM, 62.5/125 <b>X:</b> Others	<b>85:</b> 850±40nm <b>O:</b> O band(1260~1360nm) <b>C:</b> C band(1530~1565nm) <b>L:</b> L band(1565~1625nm) <b>U:</b> U band(1625~1675nm) <b>FS:</b> 1260~1650nm	<b>3:</b> 3V <b>5:</b> 5V	<b>L:</b> Latching <b>N:</b> Non-latching	<b>25:</b> 250um (Bare fiber) <b>90:</b> 900um <b>200:</b> 2000um <b>X:</b> Others	<b>05:</b> 0.5m±0.05m <b>10:</b> 1.0m±0.05m <b>12:</b> 1.2m±0.05m <b>15:</b> 1.5m±0.05m <b>X:</b> Others	<b>00:</b> None <b>LU:</b> LC/UPC <b>LP:</b> LC/PC <b>LA:</b> LC/APC <b>FU:</b> FC/UPC <b>FP:</b> FC/PC <b>FA:</b> FC/APC <b>SU:</b> SC/UPC <b>SP:</b> SC/PC <b>SA:</b> SC/APC <b>STP:</b> ST/PC <b>STA:</b> ST/APC <b>X:</b> Others
<b>Note: 1.Item F:Fiber Length Excluding connectors.</b>						