

2×2 Opto-Mechanical Switch

Features:

- Fast Switching Speed
- Broad Wavelength Range
- Ultra-low Loss
- Latching or Non-latching Configuration



Applications:

- Sub-system Integration
- Configurable OADM
- Test & Measurement Equipment

Specifications¹:

Parameter		Unit	Grade "A"
Central Wavelength (λ_c)		nm	1310, 1550, 1310&1550
Bandwidth		nm	100
Insertion Loss	Max.	dB	0.8
Return Loss	Typ.	dB	60
	Min.		50
PDL	Typ.	dB	0.05
	Max.		0.10
Switching Time	Typ.	ms	8
	Max.		10
Cross-Talk	Typ.	dB	70
	Min.		60
Switching Speed	Max.	Hz	10
Switch Voltage		V	4.5~5.5
Durability	Min.	cycles	10 million
Repeatability ²	Typ.	dB	+/- 0.02
	Max.		+/- 0.05
Fiber Type			Corning SMF-28
Fiber Length	Min.	m	1.0
Power Handling	Max.	mW	1,000
Operating Temperature		°C	0~70
Storage Temperature		°C	- 40~85
Package Dimension		mm	Type A :(L)55 × (W)26 × (H)17
			Type B: (L)47 × (W)19 × (H)9

1. Values referenced without connectors.
2. Repeatability measured at room temperature for 100 cycles.
3. Custom fiber, central wavelength, switch voltage available upon request.

Package¹:

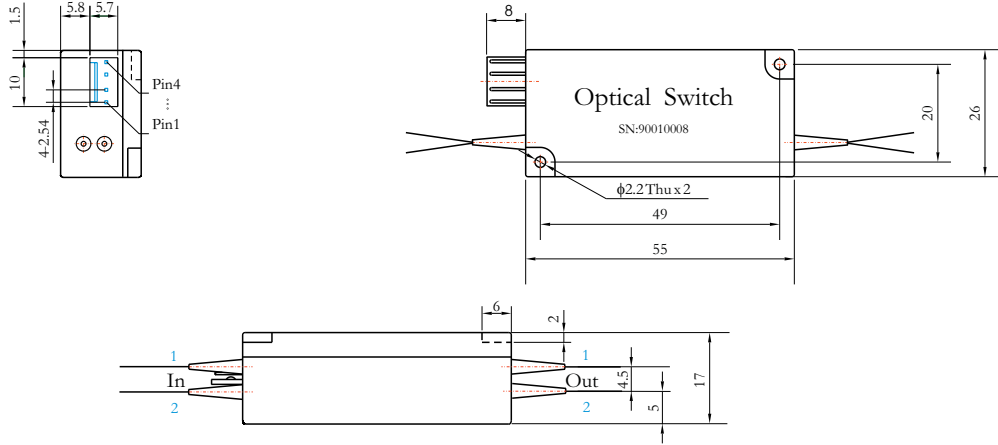


Figure 1. Package Type A

Actuation Style										
	Switch Control				Position Sensor					
	Pin1	Pin2	Pin3	Pin4	Pin3 and Pin4	Pin1	Pin2	Pin3	Pin4	
Non-latching	GND	5VDC			Contact Close	GND	GND			Open Contact
Latching 2-Pin Control	GND	5VDC			Contact Close	5VDC	GND			Open Contact
Latching 3-Pin Control	GND	N/A	5VDC		Contact Close	N/A	GND	5VDC		Open Contact
Latching 4-Pin Control	5VDC	GND	N/A	N/A		N/A	N/A	GND	5VDC	

Table 1: Type A Truth Table

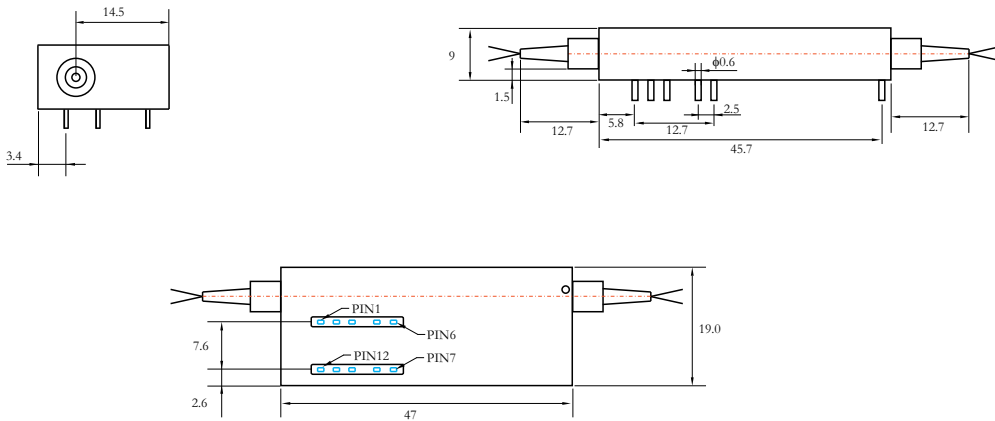


Figure 2. Package Type B

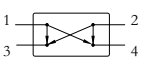
Optical Path 	Pin Status							
	Electric Drive				Status Contacts			
	1	12	2	11	3-5	3-6	10-7	10-8
Reflection 1-3,4-2			GND	5VDC	Closed	Open	Open	Closed
Transmission 1-2,4-3	GND	5VDC			Open	Closed	Closed	Open

Table 2: Type B Truth Table

Order Information:

KSWT - XXX - X - XXXX - XXXX - XX - XX
 A B C D E F

A	Configuration	1×2=1×2 type
		2×2=2×2 type
B	Package Type	A=Type A
		B=Type B
		S=Custom
C	Fiber Type	250S=250 μm bare fiber
		900L=900 μm loose tube
		900T=900 μm tight buffer fiber
D	Wavelength	1310=1310 nm
		1550=1550 nm
		1315=1310&1550 nm
E	Connector	N=W/O connector
		Y=With connector ¹
F	Control Method (for Type A only)	N2=Non-latching 2-Pin Control
		L2=Latching 2-Pin Control
		L3=Latching 3-Pin Control
		L4=Latching 4-Pin Control

1. Please specify the type of connector when ordering.