

## 2×2 Mechanical 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



### Performance

Parameters		2×2	
		MM	SM
WavelengthRang	nm		
Operating length	nm	630/650/780/850/980/1064/1310	1310/1490/1550/1625/1650
Insertion Loss	dB	Typ:1.0, Max:1.3	Typ:1.0, Max:1.2
Return Loss	dB	≥30	≥50
Crosstalk	dB	≥35	≥50
PDL	dB	≤0.05	
WDL	dB	≤0.25	
TDL	dB	≤0.25	
Repeatability	dB	≤±0.02	
Power Supply	v	3.0 or 5.0	
Lifetime	cycle	≥10 <sup>7</sup>	
Switch Time	ms	≤8	
Transmission	mW	≤500	
Operating	°C	-40~+85	
Storage	°C	-40~+85	
Weight	g	16	
Dimension	mm	(L)28.5×(W)12.6×(H)8.5(±0.2)	

**Above specification are for device without connector**

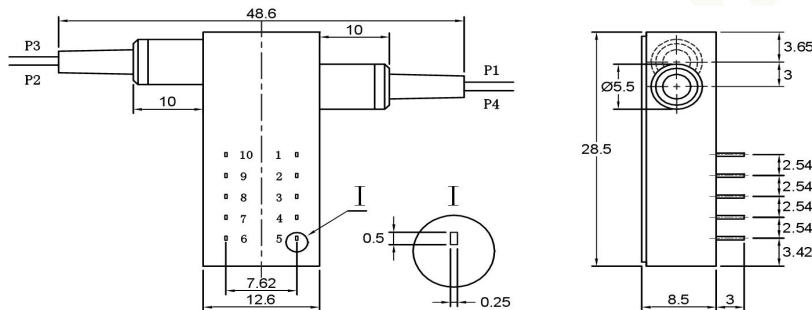
### Pins

Optical Path		Electric Drive				Sensor Status	
2x2		1	5	6	10	3 - 4,7 - 8	2 - 3,8 - 9
Latching	P1-P4,P2-P3	+5V	GND	N/A	N/A	CLOSE	OPEN
	P1-P3,P2-P4	N/A	N/A	GND	+5V	OPEN	CLOSE
Non-Latching	P1-P3,P2-P4	N/A	N/A	N/A	N/A	OPEN	CLOSE
	P1-P4,P2-P3	+5V	N/A	N/A	GND	CLOSE	OPEN

### Optical Route



### Dimension



### Electric

Specifications	Voltage	Current	Resistance
5V latching	4.5~5.5	36~44mA	125Ω
5V non-latching	4.5~5.5	26~32mA	175Ω
3V latching	2.7~3.3	54~66mA	50Ω
3V non-latching	2.7~3.3	39~47mA	70Ω

### Ordering Information

Mode	Wavelength	Voltage Type	Control Model	Fiber Type	Fiber Diameter	Fiber Length	Connector
S:SM	85=850nm	3=3V	L=Latching	5=50/125	25=250um	05=0.5m	0=None
M:MM	13=1310nm	5=5V	N=Non-Latching	6=62.5/125	90=900um	10=1.0m	1=FC/PC
	14=1490nm			9=9/125	20=2.0mm	15=1.5m	3=FC/APC
	15=1550nm						4=SC/PC
	62=1625nm						5=SC/APC
	65=1650nm						6=ST/PC
	13/15=1310/1550nm						7=ST/APC
							8=LC/PC
							9=LC/APC