

## 1×8 Mini 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

Channel Blocking  
 Configurable Add/Drop  
 System Monitoring  
 Instrumentation

### Performance

Parameters		1×8 Mini Optic switch	
Wavelength Range	nm	850±40	1260~1650
Operating Wavelength	nm	850	1310/1490/1550/1625/1650
Insertion Loss	dB	≤0.8	≤1.0
Return Loss	dB	≥35	≥55
Crosstalk	dB	≥35	≥50
PDL	dB	≤0.1	
WDL	dB	≤0.25	≤0.3
Repeatability	dB	≤±0.05	
Power Supply	V	3.0 or 5.0	
Lifetime	Time	10 Million	
Switch Time	ms	≤10	
Fiber Type		SM or MM	
Transmission Power	mW	≤500	
Operating Temperature	°C	-40~+85	
Storage Temperature	°C	-40~+85	
Weight	g	16	
Dimension	mm	(L)67×(W)25×(H)10 (±0.2)	

**Above specification are for device without connector**

### Pins

**Latching**

Optical Path	Relay	Electric Drive		Status Sensor			
		Pin 1	Pin 8	Pin 2-3	Pin 3-4	Pin 5-6	Pin 7-8
Input→Port 1	Relay 1	5V Pulse	GND	Open	Close	Close	Open
	Relay 2,3,4,5,6,7	N/A	N/A				
Input→Port 2	Relay 1	GND	5V Pulse	Close	Open	Open	Close
	Relay 2	5V Pulse	GND	Open	Close	Close	Open
	Relay 3,4,5,6,7	N/A	N/A				
Input→Port 3	Relay 1,2	GND	5V Pulse	Close	Open	Open	Close
	Relay 3	5V Pulse	GND	Open	Close	Close	Open
	Relay 4,5,6,7	N/A	N/A				
Input→Port 4	Relay 1,2,3	GND	5V Pulse	Close	Open	Open	Close
	Relay 4	5V Pulse	GND	Open	Close	Close	Open
	Relay 5,6,7	N/A	N/A				
Input→Port 5	Relay 1,2,3,4	GND	5V Pulse	Close	Open	Open	Close
	Relay 5	5V Pulse	GND	Open	Close	Close	Open
	Relay 6,7	N/A	N/A				
Input→Port 6	Relay 1,2,3,4,5	GND	5V Pulse	Close	Open	Open	Close
	Relay 6	5V Pulse	GND	Open	Close	Close	Open
	Relay 7	N/A	N/A				
Input→Port 7	Relay 1,2,3,4,5,6	GND	5V Pulse	Close	Open	Open	Close
	Relay 7	5V Pulse		Open	Close	Close	Open
Input→Port 8	Relay 1,2,3,4,5,6,7	GND	5V Pulse	Close	Open	Open	Close

**Non-latching**

Optical Path	Relay	Electric Drive		Status Sensor			
		Pin 1	Pin 8	Pin 2-3	Pin 3-4	Pin 5-6	Pin 7-8
Input→Port 1	Relay 1	5 V	GND	Open	Close	Close	Open
	Relay 2,3,4,5,6,7	No Power		Close	Open	Open	Close
Input→Port 2	Relay 2	5 V	GND	Open	Close	Close	Open
	Relay 1,3,4,5,6,7	No Power		Close	Open	Open	Close
Input→Port 3	Relay 3	5 V	GND	Open	Close	Close	Open
	Relay 1,2,4,5,6,7	No Power		Close	Open	Open	Close
Input→Port 4	Relay 4	5 V	GND	Open	Close	Close	Open
	Relay 1,2,3,5,6,7	No Power		Close	Open	Open	Close
Input→Port 5	Relay 5	5 V	GND	Open	Close	Close	Open
	Relay 1,2,3,4,6,7	No Power		Close	Open	Open	Close
Input→Port 6	Relay 6	5 V	GND	Open	Close	Close	Open
	Relay 1,2,3,4,5,7	No Power		Close	Open	Open	Close
Input→Port 7	Relay 7	5 V	GND	Open	Close	Close	Open
	Relay 1,2,3,4,5,6	No Power		Close	Open	Open	Close
Input→Port 8	Relay 1,2,3,4,5,6,7	No Power		Close	Open	Open	Close

**Ordering Information**

Wavelength	Voltage Type	Control Model	Fiber Type	Fiber Diameter	Fiber Length	Connector
85: 850nm 13: 1310nm 14: 1490nm 15: 1550nm Or other	3: 3V 5: 5V	L: Latching N: Non-Latching	5: 50/125 6: 62.5/125 9: 9/125	25: 250um 90: 900um 20: 2.0mm	05: 0.5m 10: 1.0m 15: 1.5m	OO: None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC