






## Product Description





The Series 1x8 fiber optic switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. Latching operation preserves the selected optical path after the drive signal has been removed. The switch has integrated electrical position sensors, and the new material based advanced design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as an unmatched low cost. Electronic driver is available for this series of switches.

## Features

-  Unmatched Low Cost
-  Low Optical Distortions
-  High Isolation
-  High Reliability
-  Epoxy-Free Optical Path



## Applications

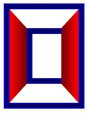
-  Channel Blocking
-  Configurable Add/Drop
-  System Monitoring
-  Instrumentation

## Specifications

Parameters	Specifications	Unit
Operating Wavelength	1260~1620(SM)、850(MM)	nm
Insertion Loss	$\leq 1.2$	dB
Wavelength Dependent Loss	$\leq 0.35$	dB
Polarization Dependent Loss	$\leq 0.05$	dB
Temperature Dependent Loss	$\leq 0.25$	dB
Return Loss	SM $\geq 50$ MM $\geq 30$	dB
Cross Talk	SM $\geq 55$ MM $\geq 50$	dB
Switch Time	$\leq 8$	ms
Repeatability	$\leq \pm 0.02$	dB
Durability	$\geq 10^7$	times
Operating Voltage	3 or 5	V
Switch Type	Non-Latching/Latching	
Operating Temperature	-20~+70	°C
Storage Temperature	-40~+85	°C
Optical Power	$\leq 500$	mW
Dimension	35.0L×35.0W×9.0H ±0.2	mm


**Pin Configurations**
**Latching Type:**

Type	Optical Route	Relay	Electric Drive				State Sensor			
			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	Input- Port 1(Black)	Relay1	--	--	GND	V+	Close	Open	Open	Close
		Relay2	--	--	GND	V+	Close	Open	Open	Close
		Relay3	V+	GND	--	--	Open	Close	Close	Open
	Input- Port 2 (red)	Relay1	--	--	GND	V+	Close	Open	Open	Close
		Relay2	V+	GND	--	--	Open	Close	Close	Open
		Relay3	--	--	GND	V+	Close	Open	Open	Close
	Input- Port 3(blue)	Relay1	--	--	GND	V+	Close	Open	Open	Close
		Relay2	--	--	GND	V+	Close	Open	Open	Close
		Relay3	--	--	GND	V+	Close	Open	Open	Close
	Input- Port 4(White)	Relay1	--	--	GND	V+	Close	Open	Open	Close
		Relay2	V+	GND	--	--	Open	Close	Close	Open
		Relay3	V+	GND	--	--	Open	Close	Close	Open
	Input- Port 5(Black)	Relay1	V+	GND	--	--	Open	Close	Close	Open
		Relay2	--	--	GND	V+	Close	Open	Open	Close
		Relay3	V+	GND	--	--	Open	Close	Close	Open
	Input- Port 6 (red)	Relay1	V+	GND	--	--	Open	Close	Close	Open
		Relay2	V+	GND	--	--	Open	Close	Close	Open
		Relay3	--	--	GND	V+	Close	Open	Open	Close
	Input- Port 7(blue)	Relay1	V+	GND	--	--	Open	Close	Close	Open
		Relay2	--	--	GND	V+	Close	Open	Open	Close
		Relay3	--	--	GND	V+	Close	Open	Open	Close
	Input- Port 8(White)	Relay1	V+	GND	--	--	Open	Close	Close	Open
		Relay2	V+	GND	--	--	Open	Close	Close	Open
		Relay3	V+	GND	--	--	Open	Close	Close	Open



**Non-Latching Type**

Type	Optical Route	Relay	Electric Drive				State Sensor			
			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Non-Latching	Input- Port 1(Black)	Relay1	--	--	--	--	Close	Open	Open	Close
		Relay2	--	--	--	--	Close	Open	Open	Close
		Relay3	V+	--	--	GND	Open	Close	Close	Open
	Input- Port 2 (red)	Relay1	--	--	--	--	Close	Open	Open	Close
		Relay2	V+	--	--	GND	Open	Close	Close	Open
		Relay3	--	--	--	--	Close	Open	Open	Close
	Input- Port 3(blue)	Relay1	--	--	--	--	Close	Open	Open	Close
		Relay2	--	--	--	--	Close	Open	Open	Close
		Relay3	--	--	--	--	Close	Open	Open	Close
	Input- Port 4(White)	Relay1	--	--	--	--	Close	Open	Open	Close
		Relay2	V+	--	--	GND	Open	Close	Close	Open
		Relay3	V+	--	--	GND	Open	Close	Close	Open
	Input- Port 5(Black)	Relay1	V+	--	--	GND	Open	Close	Close	Open
		Relay2	--	--	--	--	Close	Open	Open	Close
		Relay3	V+	--	--	GND	Open	Close	Close	Open
	Input- Port 6 (red)	Relay1	V+	--	--	GND	Open	Close	Close	Open
		Relay2	V+	--	--	GND	Open	Close	Close	Open
		Relay3	--	--	--	--	Close	Open	Open	Close
	Input- Port 7(blue)	Relay1	V+	--	--	GND	Open	Close	Close	Open
		Relay2	--	--	--	--	Close	Open	Open	Close
		Relay3	--	--	--	--	Close	Open	Open	Close
	Input- Port 8(White)	Relay1	V+	--	--	GND	Open	Close	Close	Open
		Relay2	V+	--	--	GND	Open	Close	Close	Open
		Relay3	V+	--	--	GND	Open	Close	Close	Open

