

# 1x2 Mechanical Optical Switch Spec



The 1x2 fiber optic switch connects optical channels by directing or blocking an incoming optical signal into the output fiber. This is achieved using a patent pending opto-mechanical configuration and activated via an electrical control signal. A latching version preserves the selected optical path after the drive signal has been removed, while the non-latching versions default to either the open or closed state when power is removed. The switch has integrated electrical position sensors. The new material based advanced design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as unmatched low cost.

## Features

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

## Application

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



## Performance Specifications

Parameters	Specifications	Unit
Operating Wavelength	1260~1620(SM)、850(MM)	nm
Insertion Loss	≤0.6	dB
Wavelength Dependent Loss	≤0.25	dB
Polarization Dependent Loss	≤0.05	dB
Temperature Dependent Loss	≤0.20	dB
Return Loss	SM≥50 MM≥30	dB
Cross Talk	SM≥55 MM≥35	dB
Switch Time	≤8	ms
Repeatability	≤±0.02	dB
Durability	≥10 <sup>7</sup>	times
Operating Voltage	3 or 5	V
Switch Type	Non-Latching/Latching	
Operating Temperature	-20~+70	°C
Storage Temperature	-40~+85	°C
Optical Power	≤500	mW
Dimension	27.0L×12.0W×8.2H	mm

\* Notes: 1. Insertion Loss tested without connector.

## Hirundo Optics Inc

Factory: 2nd Floor, Building 6, #16 Xinfu Road, Southern Cable Industrial Park, Rongli Ronggui Street, Shunde District, Foshan city, Guangdong 528305 China  
Tel: 0757-26619220 Email: info@hirundo-link.com Website: <https://www.hirundo-link.com>

