1x2 Mechanical Optical Switch Spec

Hirundo

HTUNG 1+2 54 54 N-13-13

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 pen- ding 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 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	≤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 Xinfa 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

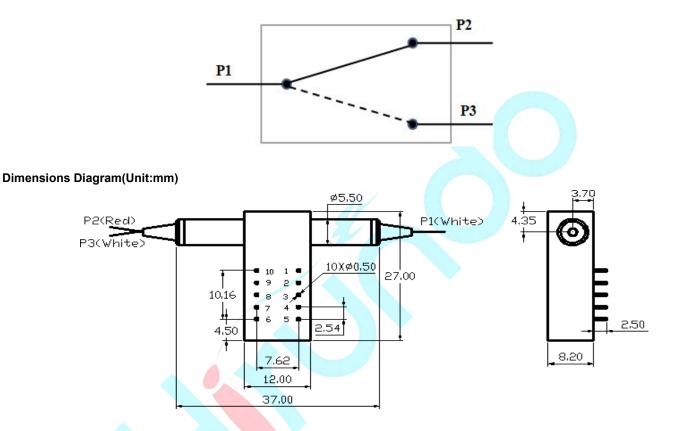
1x2 Mechanical Optical Switch Spec

PinConfigurations

Туре			Electri	c Drive		State Sensor					
1×2	Optical Route	Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9		
	P1-P2			GND	V+	Close	Open	Open	Close		
Latching	P1-P3	V+	GND			Open	Close	Close	Open		
	P1-P2					Close	Open	Open	Close		
Non-latching	P1-P3	V+			GND	Open	Close	Close	Open		

Hirundo

Optical Route



Order information:

SW (Switch) PN: SW-XXXXXXXX-XX (SW+11 Code+2 Serial Number)

SW	X XXXX		Х		X		Х		X		X		Х		XX		
	Туре		Type Central Wavelength			Fiber Type		Fiber Jacket		Fiber Length		Connector		Contrel Type		Drive Voltage	
	1	1X1	0850	850	0	SM, 9/125	0	250um Bare Fiber	0	0.5m	0	none	L	Latching	3	3V	
	2	1X2	0980	980	1	MM, 50/125	1	0.9mm Loose	1	1.0m	1	SC/UPC	N	Non-latching	5	5V	
	3	1X2T	1060	1060	2	MM, 62.5/125	S	Special	2	1.5m	2	SC/APC			s	Special	S
	4	2X2B	1310	1310	3	PM			3	2.0m	3	FC/UPC					N
	5	2X2T	1480	1480	s	Special			4	2.5m	4	FC/APC	1				
	6	1X4	1550	1550					5	3.0m	5	LC/UPC					
	7	1X6	1315	1310&1550					6	3.5m	6	LC/APC					
	8	1X8	1625	1625					7	0.7m	7	ST/UPC					
	s	Special	0005	Special					8	1.2m	8	E2000					
									9	2.7m	s	Special					
									s	Special							

Hirundo Optics Inc

Factory:2nd Floor, Building 6, #16 Xinfa 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