

# LightBend™ 1x4 Fiber OptoMechanical Fiberoptic Switch

## Product Description

The LB Series 1x4 fiber optic switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using a patent pending opto-mechanical configuration activated via an electrical control signal. 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 unmatched low cost.

## Features

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

## Performance Specifications

LB Series 1x4 Switch	Min	Typical	Max	Unit
Operation Wavelength	1260-1360, 1510-1610			nm
Insertion Loss <sup>1</sup>	0.7			dB
Wavelength Dependent Loss	0.15			dB
Polarization Dependent Loss	0.15			dB
Return Loss	55			dB
Cross Talk	50			dB
Switching Time	2		10	ms
Repeatability	0.05		0.10	dB
Durability	10 Million			Cycle
Switching Type	Latching / Non-Latching			
Operating Voltage	4.5	5	6	V
Voltage Pulse Width (Latching Type)	10	50	1000	ms
Operating Temperature	-5			°C
Optical Power Handling	300		500	mW
Storage Temperature	-40			°C
Fiber Type	SMF-28			
Package Dimension	71.0L x 48.3W x 10.0H			mm

Note:

1. Exclude connectors.

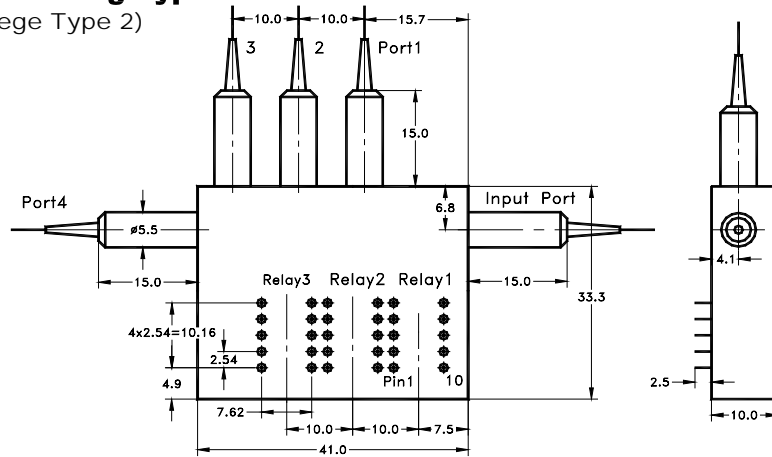
## Applications

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



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## Non-Latching Type (Package Type 2)



## Ordering Information

LBSW-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	Switching Type	Package Type	Fiber Type		Fiber Length	Connector
	1x4=14 4x1=41 Special=00	1310=3 1550=5 Special=0	Latch=1 Non-latch=2	Standard =1 Special=0	SMF-28=1 Special=0	Bare fiber=1 900m loose tube=3 Special = 0	0.25m=1 0.5m=2 1.0m=3 Special=0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0