

# LightBend™ MxN Fiberoptic Switch (non-crossing)

(Protected by U.S. patents 7224860, 6757101, 6577430 and pending patents)

## Product Description

The MxN Series optical fiber switch is based on proprietary groove alignment mechanism featuring low cost and excellent optical performance for any wavelength between 300nm-2100nm, setting new industrial standard. In fiberoptic switching. The MxN series optical fiber switch is compliant with the Telcordia 1209 and 1221 reliability standards. The driving circuit is embedded in the package and is connected to computer through USB or RS232 interface.

This version MxN optical fiber switch is limited to switch any port of M to any port of N at a time.



## Performance Specifications

LB Series 1xN Switch	Min	Typical	Max	Unit
Operation Wavelength	400		1800	nm
Insertion Loss <sup>1</sup>		1	1.5	dB
Cross Talk	50			dB
Switch Speed (Rise, Fall)			1000	ms
Durability	10 <sup>7</sup>			cycle
Polarization Dependent Loss		0.05	0.4	dB
Wavelength Dependence Loss <sup>2</sup>		0.2	0.5	dB
Return Loss	45			dB
Repeatability			0.3	dB
Input Power			5	W
Operation Voltage <sup>3</sup>			12	V
Operating Temperature <sup>4</sup>	-5		65	°C
Optical Power Handling <sup>5</sup>		300	500 <sup>5</sup>	mW
Storage Temperature	-40		85	°C
Switch type	Non-Latching			
Package Dimension	152L x 192W x 80H			mm

1. Measured without connectors
2. Within 50nm bandwidth
3. Other voltage requirements also available
4. -25 °C version is also available.
5. High power version available

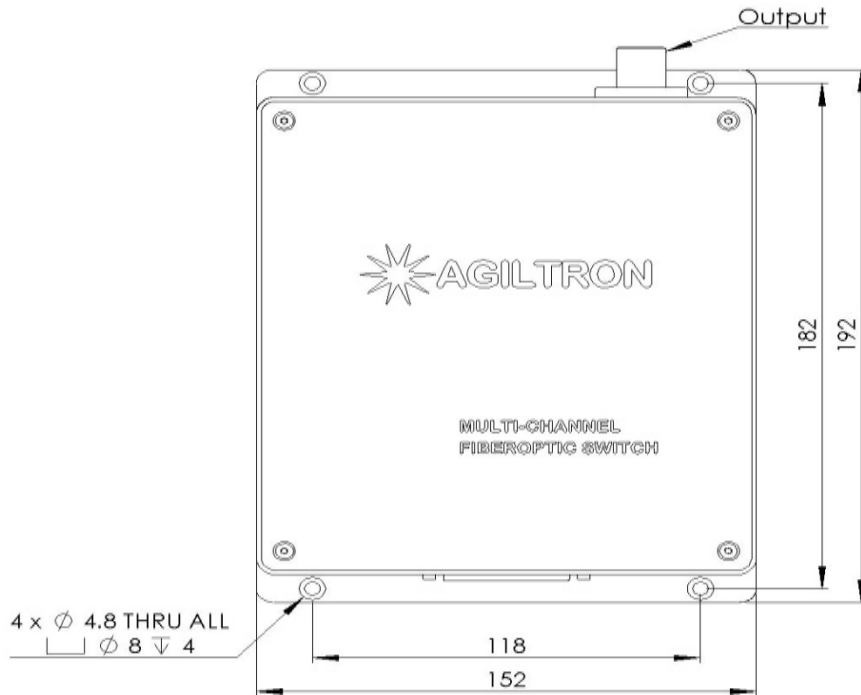
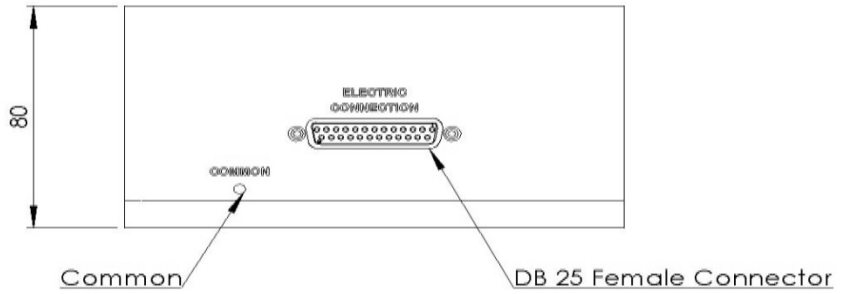
## Features

- Low Cost
- High Reliability
- Low Insertion Loss
- Broad Band
- Compact Design
- Direct Low Voltage Drive

## Applications

- Optical Signal Routing
- Network Protection
- Wavelength Management
- Signal Monitoring
- Instrumentation

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## Ordering Information

LBMS-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	Wavelength	M	Package	Fiber Type	Fiber Length	Connector		
1x8=08	1060=1	1=1	Standard=1	SMF28 =1	Bare fiber=1	None=1		
1x16=16	1310=3	2=2	Special=0	MM50/125=2	900loose tube=3	FC/PC=2		
1x32=32	1410=4	3=3		MM62.5/125=3	Special=0	FC/APC=3		
1x64=64	1550=5	4=4		Special=0		SC/PC=4		
1x128=128	1310/1550=2	5=5				SC/APC=5		
Special=00	650=6	6=6				ST/PC=6		
	780=7	7=7				LC=7		
	850=8	8=8				Duplex LC=8		
	Special=0					Special=0		