CrystaLatch ${ }^{\text {TM }}$
8x8 Fiberoptic Switch
(Protected by U.S. patents 7224860, 6757101, 6577430 and pending patents)
Product Description
The CL Series 8x8 PM fiber optical switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using patented non-mechanical configurations and activated via an electrical control signal. Latching operation preserves the selected optical path after the drive signal has been removed. The all solid sate CL $8 \times 8$ fiberoptic switch features low insertion loss, high extinction ratio, high channel isolation, and extremely high reliability and repeatability. It is designed to meet the most demanding switching requirements of continuous operation without failure, longevity, operation under shock/ vibration environment and large temperature variations, and fast response time. Electronic driver is available for this series of switches.
Features

- High Speed
- Non-Mechanical
- High Reliability
- Fail-Safe Latching
- Low Insertion Loss
- Rugged
- Compact
- Cost Effective
- Direct Low Voltage Drive

Applications

- Optical Signal Routing
- Network Protection
- Burst Switching
- Configurable Add/ Drop
- Signal Monitoring
- Instrumentation


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## Electrical Driving Information

Each switching point is actuated by applying a voltage pulse. Applying one polarity pulse, one light path will be connected and latched to the position. Applying a reversed polarity pulse, another light path will be connected and latched to the position after pulse removed.

| Parameter | Minimum | Typical | Maximum | Unit |
| :--- | :---: | :---: | :---: | :---: |
| Switch Voltage | 2.5 |  | 3 | V |
| Resistance (each group) | 15 | 18 | 22 | $\Omega$ |
| Pulse Duration | 0.1 | 1 | 10 | ms |

Driving kit with RS232 and TTL interfaces and Windows ${ }^{\text {TM }}$ GUI is available

## Mechanical Footprint Dimensions (Unit:mm)

The dimension in the SPEC excludes the control circuit.

## Ordering Information

| CLSW- | $8$ |  | $\square$ | $\overline{1}$ | $\square$ | ■ | $\square$ | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Type | Wavelength | Switch | Package | Fiber Type |  | Fiber Length | Connector |
|  |  | $\begin{aligned} & 1310=3 \\ & 1550=5 \end{aligned}$ | Dual Stage=2 |  | $\begin{aligned} & \text { SMF-28=1 } \\ & \text { Special }=0 \end{aligned}$ | Bare fiber=1 $900 \mu \mathrm{~m}$ loose tube $=3$ Special $=0$ | $\begin{aligned} & 0.25 \mathrm{~m}=1 \\ & 0.5 \mathrm{~m}=2 \\ & 1.0 \mathrm{~m}=3 \\ & \text { Special }=0 \end{aligned}$ | None=1 <br> FC/ PC=2 <br> FC/ APC=3 <br> SC/ PC=4 <br> SC/ APC $=0$ <br> ST/ $P C=6$ <br> LC=7 <br> Duplex LC=8 <br> Special $=0$ |

