Optical Switch Evaluation Kit
Push Button/USB, 1x2/2x2 PCB and GUI

Product Description
The SW-DR-5 evaluation kit is compatible with LightBend™, Fiber-Fiber™, MEMS, and CrystalLatch™ 1x2/2x2 switches. It has three control modes: push button; TTL; USB with a user-friendly GUI Windows™ program for convenient laboratory use or switch performance evaluation. The unit has a mini USB connector and a 5-PIN split cable. It can be powered by the mini USB connector or an accompanying 5V wall plug power supply. It is a cost-effective solution for ease of using our switches.

Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-10</td>
<td>--</td>
<td>70</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40</td>
<td>--</td>
<td>85</td>
<td>°C</td>
</tr>
<tr>
<td>Voltage</td>
<td>-0.3</td>
<td>--</td>
<td>5.2</td>
<td>V</td>
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</tbody>
</table>

Features
- USB Interface
- Push Button
- TTL
- GUI
- Power Supply

Compatibility
- CrystalLatch™ 1x2/2x2
- LightBend™ 1x2/2x2
- MEMS 1x2/2x2
- Fiber-Fiber™ 1x2/2x2
Manual Push Button Control
The unit can be easily controlled by pushing the STROBE button, the light path will be changed accordingly.

Power the Board
The unit can be powered up via the Micro USB port.

Manual Push Button Control
The unit can be easily controlled by pushing the STROBE button, the light path will be changed accordingly.
Computer Graphic Software User Guide

- **Install the Program**
  Click on setup.exe for the automatic installation, which should be provided with the product.

- **Power the Board**
  Use the Micro-USB to USB cable to connect the board with PC.

- **Run the Program**
  Run the “Switch Operation Program.exe” and the program will open the configuration window. Select the correct Switch Group and select the specific Switch Type. Then click the “Connect” button and the program will establish the connection between PC and board.

- **Create and edit testing time sequence**
  **Add step**: Click the “Add Step” button in the menu strip or click the “+(ADD)” button would both add a step to the Programmable Running Sheet.
  **Delete step**: Click the “Delete Step” button in the menu strip or click the “-(DEL)” button would both delete a step in the Programmable Running Sheet.
**Edit step:** There are two things that you can modify for one step. One is the light path, and the other is the duration for each step. Double click the cell that you want to modify, and the program will allow you to modify the setting.

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**Ordering Information**

<table>
<thead>
<tr>
<th>SWDR</th>
<th>1x2</th>
<th>2x2</th>
<th>Dual 2x2</th>
<th>Dual 1x1</th>
<th>CL</th>
<th>FF</th>
<th>MEMS</th>
<th>MEMS Latch</th>
<th>LB</th>
<th>LB Latch</th>
<th>USB</th>
<th>TTL</th>
<th>Push Button</th>
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</thead>
<tbody>
<tr>
<td>Switch</td>
<td>Function</td>
<td>Size (mm)</td>
<td>Switch Type</td>
<td>Control Mode</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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Optical Switch Evaluation Kit
Circuit Board and Software

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