

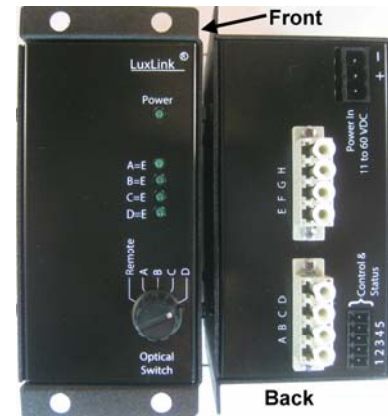
## Four Channel Optical Bypass Switch (1X4)

**OS-3141**

### For Optical Signal Switching Applications

The **LuxLink®** OS-3141 is a four channel fiber optic switch. The optical path through the unit is purely optical. There is no optical-to-electrical-to-optical conversion and as a result there is no electrical bandwidth or data rate limitation. The optical path can be selected by means of a front panel switch or via external TTL compatible signals applied to a rear panel connector and the optical path is fully bi-directional.

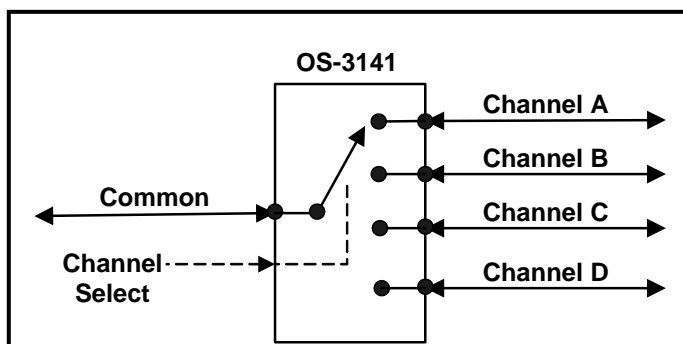
Both multimode and single-mode versions are available and installation only requires connecting the appropriate fiber optic conductors and applying operating power. Integral indicators are also provided to continuously indicate the status of the switch as well as the presence of operating power making system troubleshooting simple.



### Technical Specifications

|                            |                              |
|----------------------------|------------------------------|
| Mode of Operation          | One by Four channels         |
| Switching Time             | <10 milliseconds             |
| Back Reflection            | <-30dB                       |
| Signal Insertion Loss      | <1.5dB                       |
| Cross Talk Channel/Channel | <-50dB                       |
| Operating Wavelength       | 850, 1310 or 1550nm          |
| Optical Connectors         | ST, SC, LC or FCPC           |
| Indicator LEDs             | Power, Optical Channel       |
| Operating Temperature      | -20 to +70 C                 |
| Humidity                   | 0 to 95% non-condensing      |
| MTBF (per MIL-HBK-217)     | >120,000 hours               |
| Power Requirements*        | 11 TO 60 VDC @ 300 mA        |
| Physical Size (mm) single  | 5.0"(127)x1.0"(25)x4.0"(102) |
| Physical Size (mm) dual    | 5.0"(127)x2.2"(56)x4.0"(102) |

Specifications are subject to change without prior notice.



Typical Four Channel Optical Switch Application

### Important Features

- **Fail-safe return to Channel A upon loss of operating power**
- **Channel/Power Indicators**
- **Pure Bi-directional Optical Path Though Switch**
- **Multimode or Single-mode versions**
- **Stand-alone or Rack Mountable (same unit)**

### Ordering Information

OS-3141-X where "X" =  
Fiber/Wavelength/Connector

- 2 = Multimode/850-1310nm/LC
- 3 = Multimode/850-1310nm/ST
- 4 = Multimode/850-1310nm/SC
- 5 = Single-mode/1310-1550nm/SC
- 6 = Single-mode/1310-1550nm/LC
- 7 = Single-mode/1310-1550nm/FCPC

For stand-alone operation order a PS-1205 power supply for each unit.

For rack mounted operation all operating power is provided by power supply used with the rack-mounting panel.

**LuxLink®**

Fiber Optic Transmission Systems

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