For Automatic network path protection



The *LuxLink*® OS-7121 is an optical path protection switch, providing a self healing network. This optic switch detects loss of optical power in the primary optical path and automatically switches to the secondary (backup) path. When the primary link is restored, the network path is restored to the primary path. The optical protection switch can be controlled via three methods; front panel manual switch, remote control signal, or the automatic internal monitoring circuitry. The switch also contains a transmitter splitter for creating the redundant transmit path. The optical path through the units is purely mechanical; i.e. there is no optical to electrical to optical conversion.

Applications include telecom, datacom, ATM, and CATV systems.

Technical Specifications

• Switching time < 10 ms

Switching Time < 10 msBack Reflection < -50 dBInsertion Loss < 1.5 dBCross Talk < -50 dB

Switch Life cycle > 1 Million cycles

Selectable from -29 to -43 dBm Switch sensitivity

Sensitivity Data rate DC to 3 Gb/s

Operating Wavelength 850/1310 or 1310/1550nm

Optical Connectors ST, SC, or FCPC Operating Temperature -20° to +70°C

Humidity <95% non condensing

MTBF (per MIL HBK 217)>120,000 hours

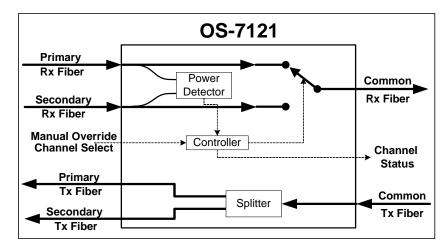
Power Requirements* 12 VDC, 110/220 VAC or -48VDC Physical Size 1U rack mountable, 8" Depth

* -48VDC models available by request.

Note that all specifications are subject to change without prior notice.

Important Features

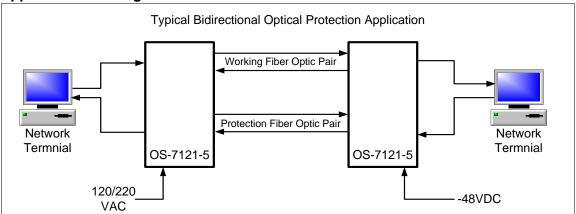
- Fail-safe return to primary with loss of power
- Stand-alone. DIN or Rack Mountable (same unit)
- Multimode or singlemode versions
- Power and Switch status indicators





www.LuxLink.com USA 516-931-2800

Application Drawing



If either or the working fibers are cut, the OS-7121 will automatically switch to the protection fiber pair.

Front & Rear Panel



Ordering Information; OS-7121-X where "X" = Wavelength, Fiber Type, & Connector Type

-3 = 850/1310nm Multi-mode ST/PC -4 = 850/1310nm Multi-mode- SC/PC

-5 = 1310/1550nm Single-mode SC/PC -7 = 1310/1550nm Single-mode FC/PC

