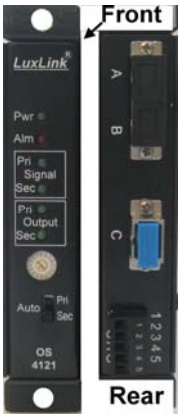
Secure Fiber Optic Path Tamper Switch — OS-4111

To disconnect a fiber that has been tampered with or compromised.



The OS-4111 is a fiber optic switch that disconnects the fiber path when the path has been tampered with, indicating a security breach.

The optical path through the units is purely mechanical. There is no optical- to-electrical-to-optical conversion. As a result, there is no data rate limitation or bandwidth limit on the fiber optic path. In addition, since the optical signal is not demodulated in any way the optical data is totally secure. The state of the optical path can be select via a front panel switch or via an external contact closure input. In event of loss of power, the unit has a fail safe mode that opens the switch.

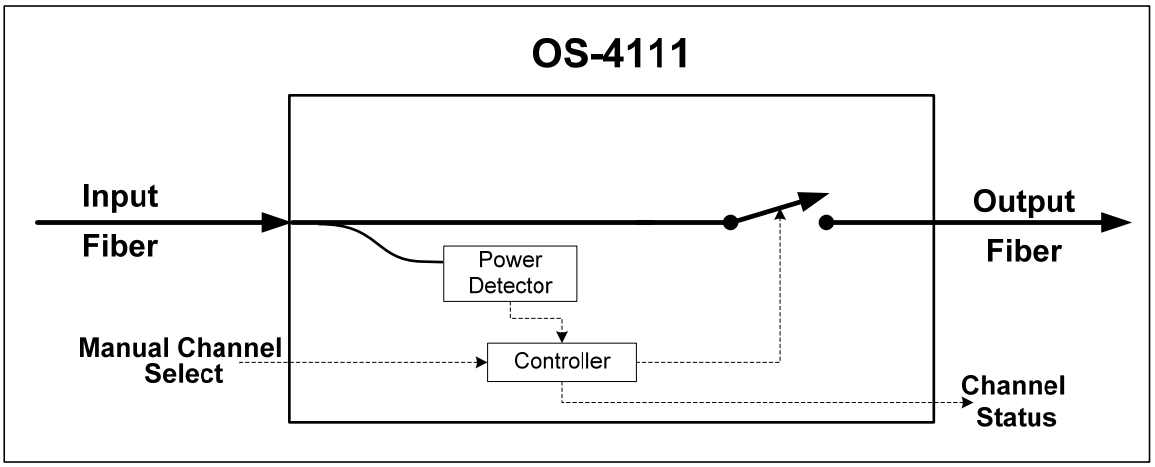
Technical Specifications

Switching Time	< 10 ms
Back Reflection	< -55 dB
Insertion Loss	< 1.5 dB
Cross Talk	< -50 dB
Switch Life cycle	> 1 Million cycles
Operating Wavelength	850/1310 or 1310/1550nm
Optical Connectors	ST/PC, FC/PC or SC
Operating Temperature	0° to +75°C
Humidity	<95% non-condensing
MTBF (per MIL HBK 217)	>120,000 hours
Power Requirements	11-24 VAC/DC @150 mA
Physical Size (mm)	5.0” (127) x 3.0” (76) X 1.0” (25.4)

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

Important Features

- ***Switching time < 10 ms***
- ***Fail-safe return to path blocked with loss of operating power***
- ***Stand-alone, DIN or Rack Mountable (same unit)***
- ***Multimode or Single-mode versions***
- ***Status and Power Indicators***



Ordering Information; OS-4111-X where “X” = Wavelength/Fiber/Connector
-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

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