WARRANTY

All fiber optic transmission systems, products and accessories manufactured by Liteway, Inc. and it's subsidiaries are fully tested prior to shipment and are warranted against defective materials and workmanship for a period of five full years from the date of the original shipment. Should a problem occur, a Return Material Authorization Number (RMA) must be obtained from Liteway Inc. at (516) 931-2800 and the item returned to Liteway, Inc. 166 Haverford Road, Hicksville, NY 11801, USA, prepaid. Liteway Inc. will then, at its option repair or replace the defective item.

Liteway, Inc. maximum liability under this warranty is limited to the cost of the defective item only. No contingent liabilities of any kind are either assumed or implied.

Any items returned to Liteway, Inc. that have been misused, abused, damaged, modified, connected or adjusted in any way contrary to the instructions furnished by Liteway, Inc. or repaired by unauthorized personnel will not be covered by this warranty. Any non-warranty repairs required will be quoted at the current rate for such services.



Important Notices



CAUTION! AVOID DIRECT EXPOSURE TO BEAM.

All –5, -7, -8, and -9 Models use laser diodes. These solid-state laser diodes are located in the optical ports of these units. Laser diodes produce invisible radiation that may be harmful to human eyes. Never look directly into the optical port of any fiber optic unit designed to operate with single-mode optical fiber.

NOT FOR LIFE SUPPORT SYSTEMS

Liteway, Inc. does not authorize or warrant any of its products or accessories for use in critical life support systems or applications of any kind.

OPERATING INSTRUCTIONS

Optical Protection Switch OS-7121-x



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.

Technical Specifications

Switching Time	< 10 ms						
Back Reflection	< -50 dB						
Insertion Loss	< 1.5 dB						
Cross-talk	< -50 dB						
Mechanical Life	> 1 Million cycles						
Switch sensitivity	Adjustable -43 dBm to -29 dBm						
Sensitivity Data rate	DC to 3 Gb/s						
Electrical Connector	6 pin removable terminal block						
Temperature Range	-20° to +70°C						
Operating Power	11-24 VAC/DC @150 mA,						
Requirements	110/220VAC or -48 VDC (+/-2)						
Physical Size (mm)	1 EIA Rack Unit (1U) 1.75" (44)L x						
	19"(482.6)W x 8.0"(203.2)D						

Models, wavelength, connector

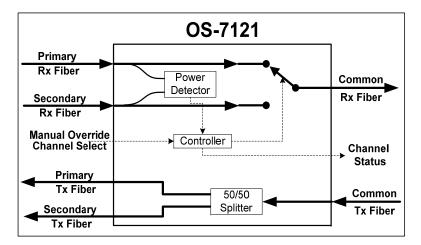
-3 = 850/1310nm Multimode	-4 = 850/1310nm Multimode
ST/PC	SC/PC
-5 = 1310/1550nm Single-mode	-7 = 1310/1550nm Single-mode
SC/PC	FC/PC

Specifications are subject to change without prior notice.

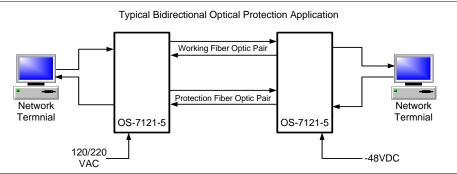


Installation Instructions

Common applications for this device are optical routing, system bypass, ring network restoration, and loop-back testing.



The diagram below shows the typical application of the OS-7121.



The OS-7121 switch will go in a secondary state under any of the following conditions:

- 1) There is a loss of electrical power.
- 2) The front panel mode switch is put into secondary mode
- 3) The rear panel control signal is grounded & in auto mode.

Power Signal Terminal Block Connections

Pin	Label	Function					
1	Ctl	Control Signal (Connect to ground to place switch in bypass state) when in auto mode.					
2	Alm	Alarm* = Ground when primary or sec. signal is lost = Open otherwise					
3	Gnd	Ground					
4	+12V	Power input +12 VDC					
4	VDC Rtn	Power Input Return					
6	-48V	Power input -48 VDC					

^{*} The Alarm signal can be used with the ALM-1000 unit to provide an audible alarm and dry contacts for remote station monitoring.

Indicator Lights

mandator Eigino				
Indicator	Lights when			
Power	Proper power is present			
Alarm	Alarm state, primary or secondary power level low.			
Signal Primary	Signal on primary channel is > level selected			
Signal Secondary	Signal on secondary channel > level selected.			
Output Primary	Output is connected to Primary > level selected.			
Output Secondary	Output is connected to Secondary > level selected			

Front Panel Auto / Primary / Secondary Mode Selector

When in auto mode, the optical switch can be controlled by the rear control signal or presence of power.

Optical Power (+/- 1.0 dBm) Level Switch Setting

Switch	Level	Switch	Level	Switch	Level	Switch	Level
0	test	4	-35.0	8	-32.2	12	-31.0
1	-43.0	5	-34.0	9	-32.0	13	-30.3
2	-39.0	6	-33.0	10	-31.5	14	-30.0
3	-36.0	7	-32.5	11	-31.3	15	-29.8

Signal indicator will flash when signal power level is 0.5 dB < selected level. Note for 850nm, table sensitivity levels are 3dB lower

