

Product Code: SN22+107DUNC

Serial Number: FD228406

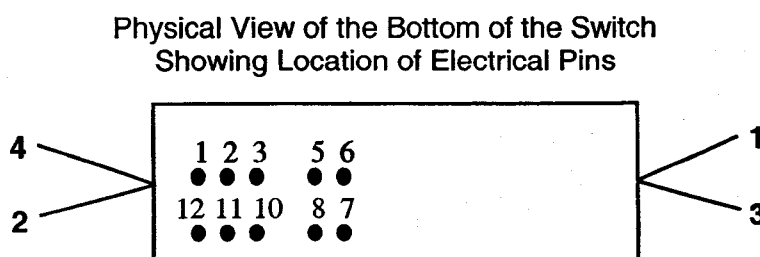
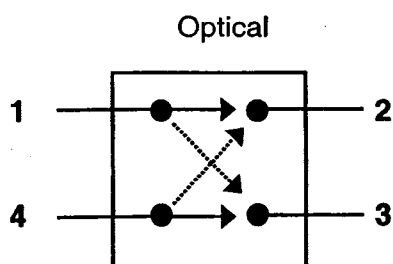
JDS Uniphase Corporation  
570 West Hunt Club Road  
Nepean (Ottawa), Ontario  
K2G 5W8 Canada

Tel 613 727-1304  
Sales 613 727-1303  
Fax 613 727-8284  
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## Operating Instructions:

There are two drive coils inside the switch which are used individually to set the switch in each of the two possible optical states. To change the state of the switch, apply a 5 VDC drive pulse of approximately 20 msec or longer on the electrical drive pins as indicated in the table below. Once the switch has been moved to the new position, it will remain there until a drive pulse appears on the drive coil for the other path. Typical operating current is 40 mA during switching.

There are two sets of single pole double throw contacts which are also operated by the switch. These can be used to sense the position of the switch or to operate other circuits based on the switch path chosen.



Optics Path	Electrical Drive					Status Contacts			
	Pin #	1	12	2	11	3 - 5	3 - 6	10 - 7	10 - 8
1-3, 4-2	Reset	0	0	Gnd	+ 5 VDC	Closed	Open	Open	Closed
1-2, 4-3	Set	Gnd	+ 5 VDC	0	0	Open	Closed	Closed	Open

Product Code: SN22+107DUNCSerial Number: FD228406**Test Results: Insertion Loss @ 5 Vdc**

Optical Path	Insertion Loss <sup>1</sup> (dB) @ 1300 nm	Insertion Loss <sup>1</sup> (dB) @ 1550 nm
1 - 3	0.31	0.40
1 - 2	0.58	0.60
4 - 2	0.37	0.32
4 - 3	0.50	0.50

Notes: 1 - Includes the loss of one connector in connectorized versions.

**Test Results: Return Loss @ 5 Vdc**

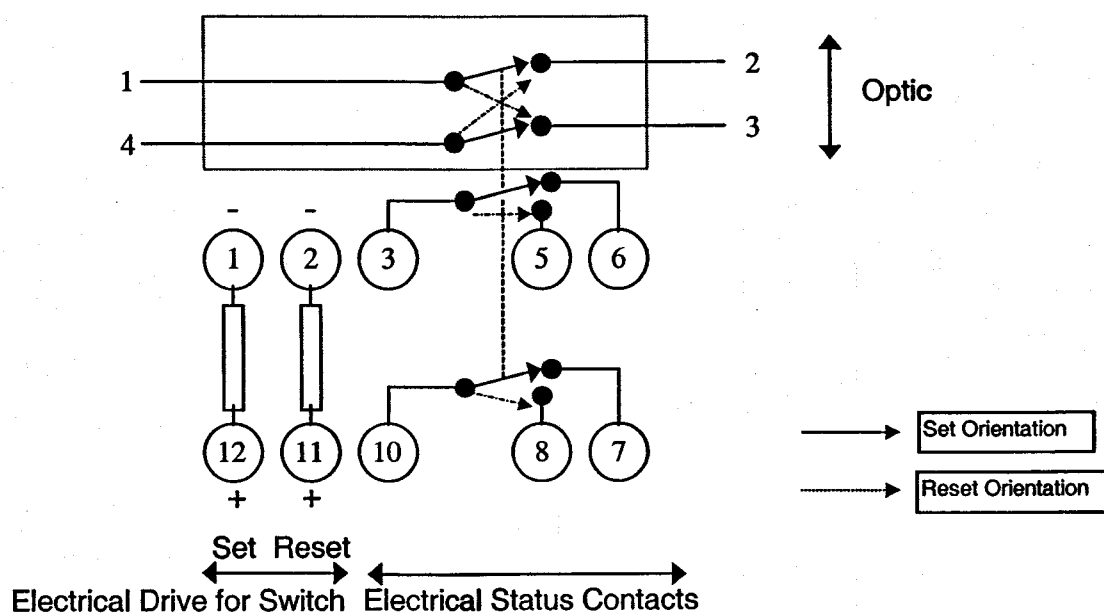
Optical Path	Return Loss <sup>2</sup> (dB) @1300 nm	Return Loss <sup>2</sup> (dB) @1550 nm
1 - 3	60.7	> 65
1 - 2	61.3	63.9
4 - 2	62.6	61.5
4 - 3	63.7	63.4

Notes: 2 - Excluding connectors

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**Optical and Internal Connections**



Inspected by: T+W DO Date: Nov 29/00

Product Code: SN22+107DUNCSerial Number: FD190180

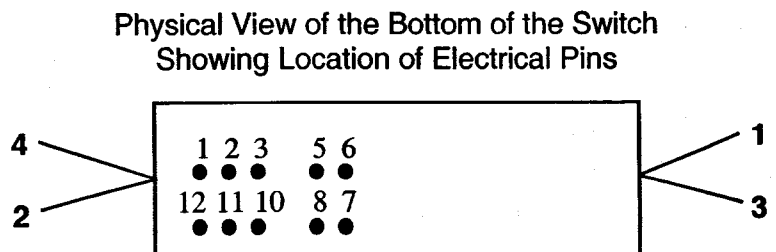
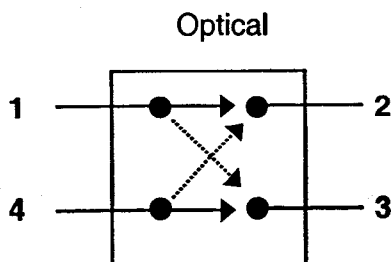
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Optics Path	Electrical Drive					Status Contacts			
	Pin #	1	12	2	11	3 - 5	3 - 6	10 - 7	10 - 8
1-3, 4-2	Reset	0	0	Gnd	+ 5 VDC	Closed	Open	Open	Closed
1-2, 4-3	Set	Gnd	+ 5 VDC	0	0	Open	Closed	Closed	Open

Product Code: SN22+107DUNCSerial Number: FD190180**Test Results: Insertion Loss @ 5 Vdc**

Optical Path	Insertion Loss <sup>1</sup> (dB) @ 1300 nm	Insertion Loss <sup>1</sup> (dB) @ 1550 nm
1 - 3	0.30	0.45
1 - 2	0.44	0.50
4 - 2	0.42	0.46
4 - 3	0.43	0.55

Notes: 1 - Includes the loss of one connector in connectorized versions.

**Test Results: Return Loss @ 5 Vdc**

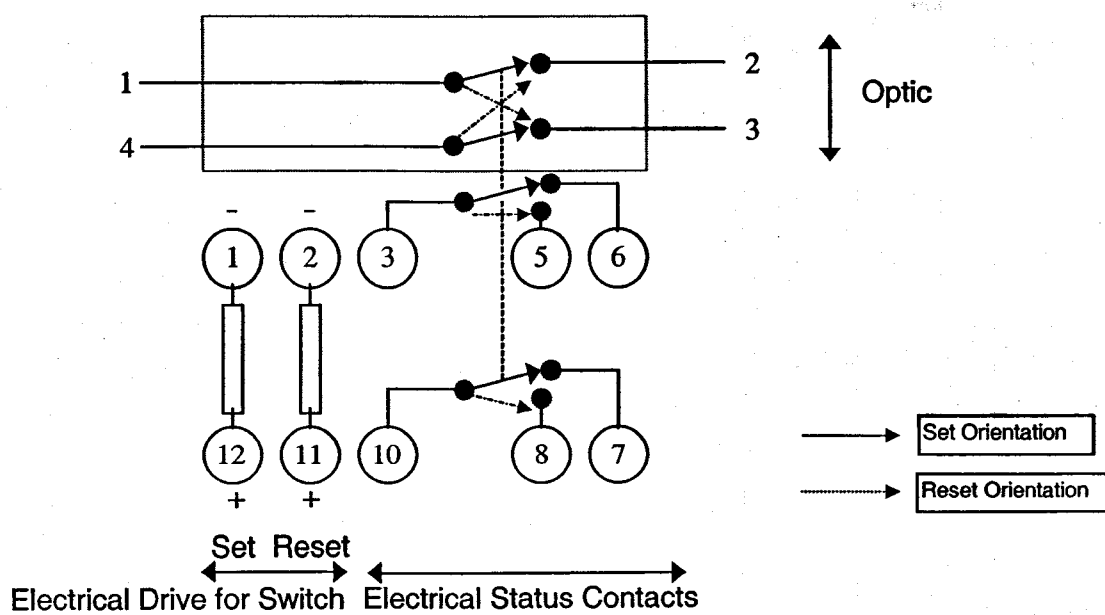
Optical Path	Return Loss <sup>2</sup> (dB) @1300 nm	Return Loss <sup>2</sup> (dB) @1550 nm
1 - 3	60.5	63.7
1 - 2	63.5	>65
4 - 2	58.9	64.5
4 - 3	63.2	>65

Notes: 2 - Excluding connectors

Product Code: SN22+107DUNC

Serial Number: FD190180

**Optical and Internal Connections**



Inspected by: THW DO Date: Dec 5/00