

SN 1:2 Latching Optical Switch



Product Code: SN12-283

Serial Number: JF001425

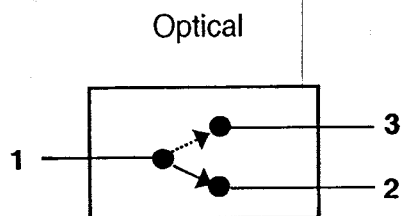
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 570 West Hunt Club Road
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 Sales 613 727-1303
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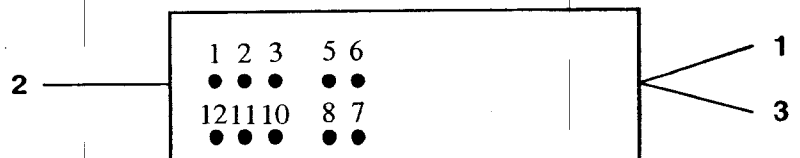
Operating Instructions:

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.



Physical View of the Bottom of the Switch Showing Location of Electrical Pins



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

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Test Results: Insertion Loss @ 5 Vdc

Optical Path	Insertion Loss ¹ (dB) @ 1310 nm	Insertion Loss ¹ (dB) @ 1550 nm
1-3	0.31	0.35
1-2	0.29	0.30

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

Test Results: Return Loss @ 5 Vdc

Optical Path	Return Loss (dB) ² @ 1310 nm	Return Loss (dB) ² @ 1550 nm
1-3	60.0	62.0
1-2	63.2	64.5

Notes: 2 - Excluding connectors

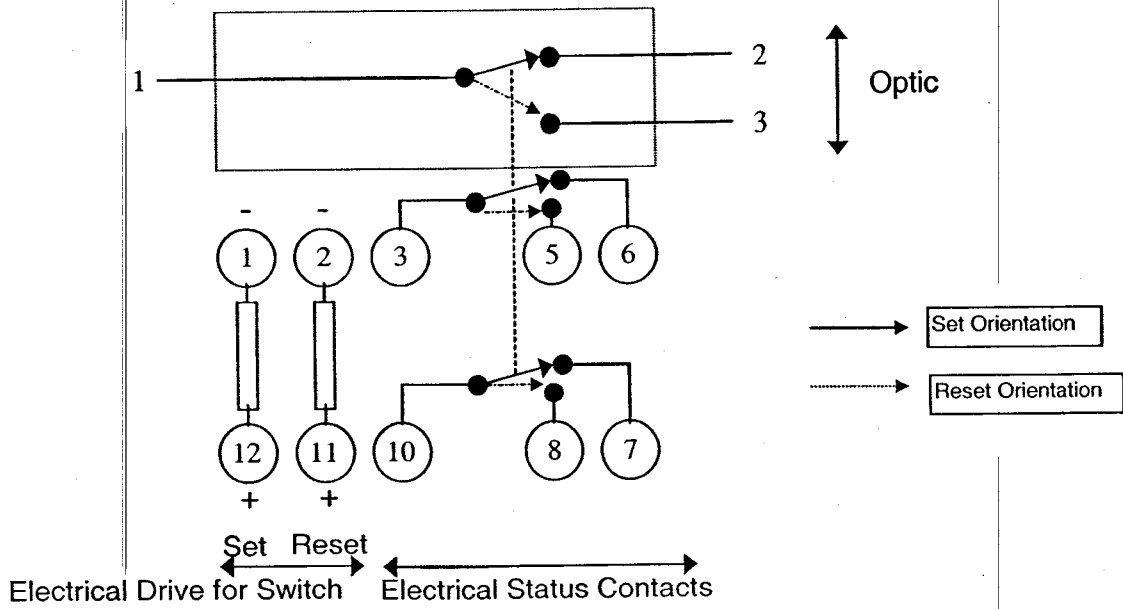
SN 1:2 Latching Optical Switch



Product Code: SN12-283

Serial Number: JF001425

Optical and Internal Connections



Inspected by: [Signature] Date: 4/27/07

Product Code: SN12-Z83

Serial Number: JF001412

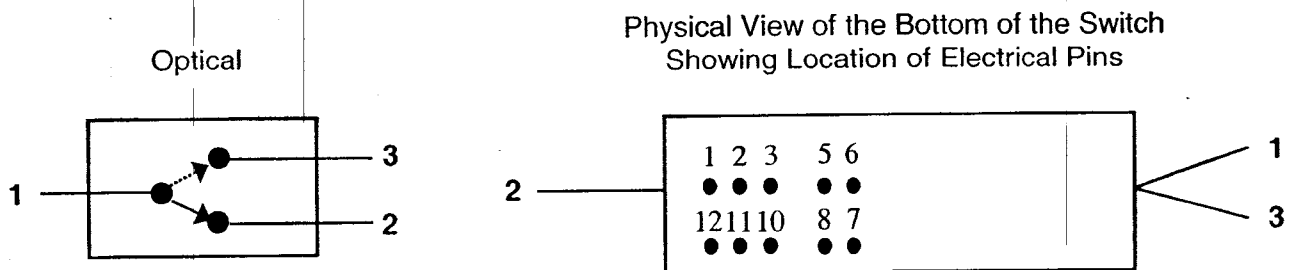
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Operating Instructions:

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	Reset	0	0	Gnd	+ 5 VDC	Closed	Open	Open	Closed
1-2	Set	Gnd	+ 5 VDC	0	0	Open	Closed	Closed	Open

Product Code: SN12-Z83

Serial Number: JF001412

Test Results: Insertion Loss @ 5 Vdc

Optical Path	Insertion Loss ¹ (dB) @ 1310 nm	Insertion Loss ¹ (dB) @ 1550 nm
1-3	0.30	0.32
1-2	0.53	0.52

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

Test Results: Return Loss @ 5 Vdc

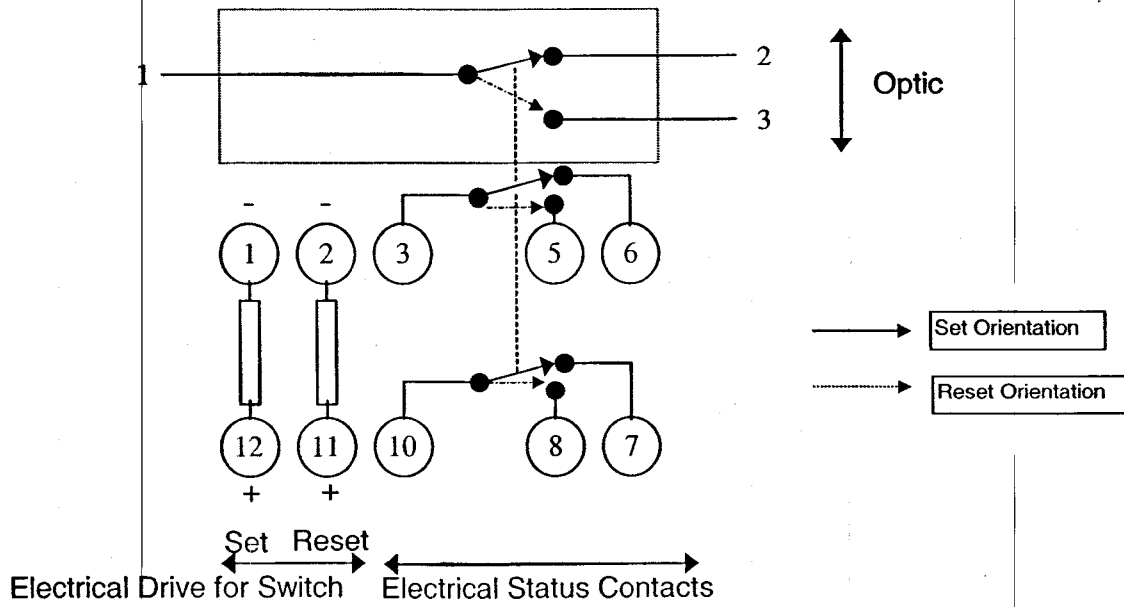
Optical Path	Return Loss (dB) ² @ 1310 nm	Return Loss (dB) ² @ 1550 nm
1-3	63.3	58.6
1-2	62.1	76.5

Notes: 2 - Excluding connectors

Product Code: SN12-283

Serial Number: JF001412

Optical and Internal Connections



Inspected by: L. Rebert Date: March 7/02