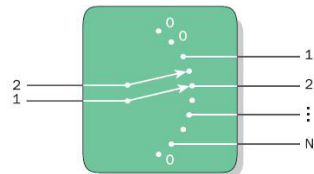
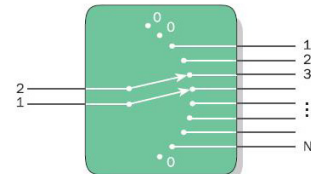


VX 2xN OPTICAL SWITCH

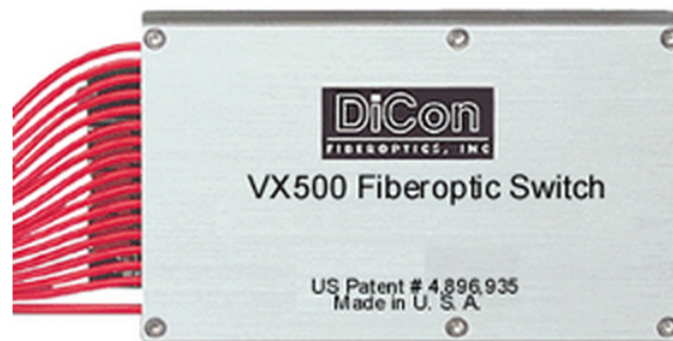
DiCon's VX Optical Switch utilizes a high resolution stepper motor to automate fiber connections. The VX optical switch can be built with single mode, multi-mode or polarization maintaining fiber. The switch is available in blocking 2xN sizes up to 2x16 or in a non-blocking 2xN configuration up to 2x32.



Blocking 2xN



Non-Blocking 2xN



FEATURES

- Low Crosstalk
- Available in Large Core Fiber Types
- Available with RS-232, I²C or TTL control options

APPLICATIONS

- Test and Measurement
- Secure Communications
- Fiber Sensing



VX 2XN OPTICAL SWITCH

OPTICAL SPECIFICATIONS¹

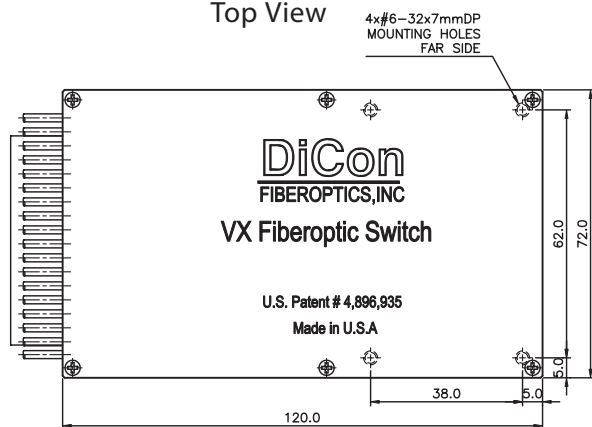
PARAMETER	RATING	
Insertion Loss ^{2,3}	1.0 dB max	
Crosstalk	-80 dB max.	
Back Reflection	Singlemode	-55 dB max.
	Multimode 50µm	-25 dB max.
	Multimode 62.5µm	-20 dB max.
PDL ^{4,5}	0.10 dB max.	
Extinction Ratio ⁶	18 dB min.	
Switching Time	300 ms + 16 ms per channel max.	
Repeatability ⁷	±0.02 dB max.	
Durability	10 million cycles min.	
Optical Power ⁸	300 mW max.	
Operating Temp	0 to 50°C	
Storage Temp	-20 to 70°C	

- Specifications are without connectors.
- IL is measured at CWL, 23°C. (Wavelength #6, measured at 632nm.)
- IL is for single-band. Dual-band adds 0.2 dB.
- Singlemode only.
- PDL is for single-band. Dual-band adds 0.05 dB.
- Corning Panda PM 1550 fiber only
- Repeatability is defined after 100 cycles.
- High power version (1.5W) available as special order

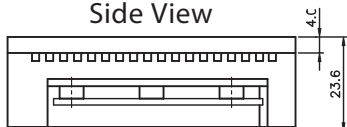
MECHANICAL DIMENSIONS CHASSIS #1

(Units: mm)

Top View



Side View



HOUSING SPECIFICATIONS

Chassis	Channel Count		Width W	Height H	Depth D
	Non-Blocking	Blocking			
#1	2 to 14	4 to 8	72.0 mm	23.6 mm	120.0 mm
#2	16 to 32	10 to 16	140.0 mm	23.6 mm	140.0 mm

ORDERING INFORMATION

VX - □ - □ - □ - □ - □ - □ - □	
Product Code	VX VX Switch
Control Interface	5 TTL 5C I ² C 5R RS-232
Switch Configuration	2xN/LB Blocking 2xN 2xN/LN Non-Blocking 2xN
Fiber Type	9 9 µm core Corning SMF-28 50 50 µm core 62 62.5 µm core 100 100 µm core PM Panda 1550 with 400 µm jacket
Wavelength Range	6 500 - 800 nm ¹ 8 850 nm ¹ 13 1290 - 1330 nm ² 15 1530 - 1570 nm ³ 16 1570 - 1610 nm ² 8/13 850 nm & 1310 nm ¹ 13/15 1290 - 1330 & 1530 - 1570 nm ² 15/16 1530 - 1570 & 1570 - 1610 nm ²
Connector	FC/SPC FC/SPC FC/APC FC/APC N NONE <i>Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC</i>
Fiber Jacket	2 2.0 mm, loose tube 9 0.9 mm, tight buffer ⁴ 9LT 900 µm, loose tube
Pigtail Length	1 1 Meter X Specify X Meters <i>Tolerance is +/- 0.05 m</i>

- Multi-mode fiber only
- 9/125µm SMF-28 fiber only
- 9/125µm SMF-28 and Panda 1550 fiber only
- 9/125µm SMF-28 and 62.5µm core fiber only

ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	TTL, I ² C or RS-232
Vcc Voltage	12 VDC
Power Consumption	3.6W max.
Connector Type	TTL Molex 22-12-2124 I ² C, RS-232 Molex 87833-1620