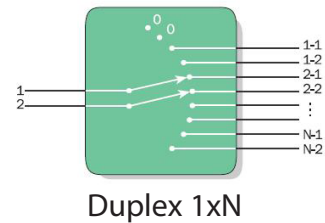
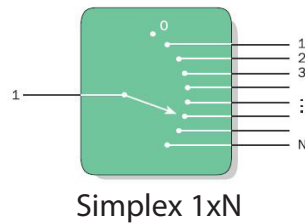


VX 1xN OPTICAL SWITCH

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 simplex 1xN sizes up to 1x50 or in a duplex configuration up to 1x25.



FEATURES

- Low Crosstalk
- Available in Large Core Fiber Types
- Available up to 1x120 in a Rackmount

APPLICATIONS

- Test and Measurement
- Secure Communications
- Fiber Sensing



VX 1XN OPTICAL SWITCH

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion Loss ^{2,3}		1.0 dB max
Crosstalk		-80 dB max.
Back Reflection	Singlemode	-55 dB max.
Reflection	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

ORDERING INFORMATION

VX - □ - □ - □ - □ - □ - □ - □

Product Code

VX VX Switch

Control Interface

5 TTL
5C I²C
5R RS-232

Switch Configuration

1xN Simplex 1xN
1xN/DS Synchronous Duplex 1xN

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 nm¹
8 850 nm¹
13 1290 - 1330 nm²
15 1530 - 1570 nm³
16 1570 - 1610 nm²
8/13 850 nm & 1310 nm¹
13/15 1290 - 1330 & 1530 - 1570 nm²
15/16 1530 - 1570 & 1570 - 1610 nm²

Connector Type

FC/SPC FC/SPC
FC/APC FC/APC
N NONE
Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

Fiber Jacket

2 2.0 mm, loose tube
9 0.9 mm, tight buffer⁴
9LT 900 µm, loose tube

Pigtail Length

1 1 Meter
X Specify X Meters

Tolerance is +/- 0.05 m

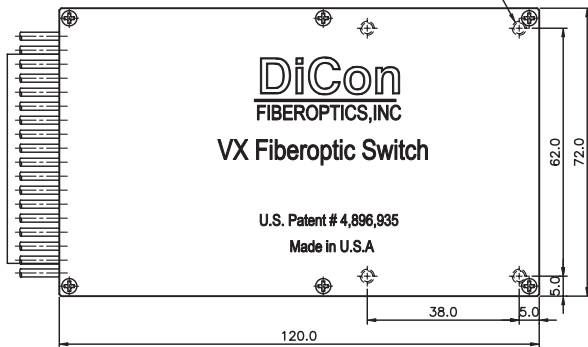
- Multi-mode fiber only
- 9/125µm SMF-28 fiber only
- 9/125µm SMF-28 and Panda 1550 fiber only
- 9/125µm SMF-28 and 62.5µm core fiber only

MECHANICAL DIMENSIONS CHASSIS #1

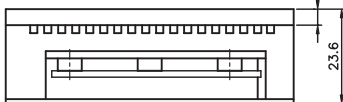
(Units: mm)

Top View

4x#6-32x7mmDP
MOUNTING HOLES
FAR SIDE



Side View



HOUSING SPECIFICATIONS

Chassis	Channel Count		Width W	Height H	Depth D
	Simplex	Duplex			
#1	1 to 17	1 to 8	72.0 mm	23.6 mm	120.0 mm
#2	18 to 32	9 to 16	140.0 mm	23.6 mm	140.0 mm
#3	33 to 50	17 to 25	190.0 mm	23.6 mm	175.0 mm

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