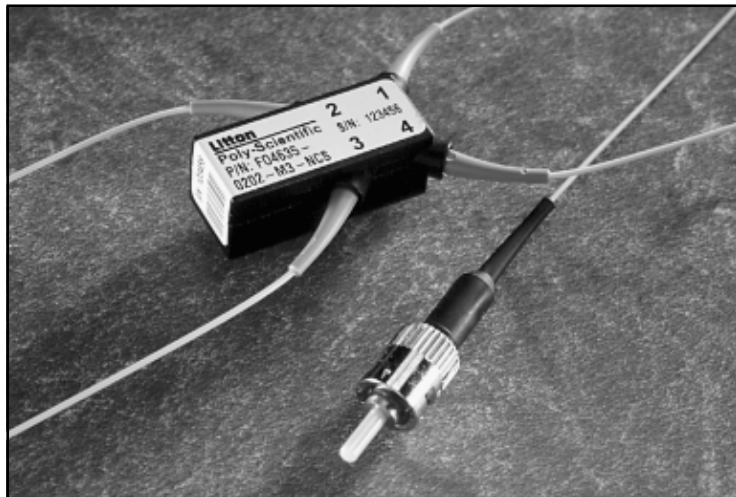


Litton Poly-Scientific



Multimode Fiber Optic Switch

FO4635

APPLICATIONS

- FDDI bypass
- Local area network bypass
- Optical routing
- Loopback diagnostic testing
- Ring network protection
- Test access

FEATURES

- Small size 1.25" L X 0.54" W X 0.50" H
- Switching time <10.0 ms
- Low power consumption
- Fail-safe return to bypass mode with power-off
- Printed circuit board mountable
- Switch status, electrical contacts
- Low insertion loss
- High reliability
- High loss option for bypass & loopback testing
- Non-latching
- MEMS based design

The Micro ElectroMechanical System (MEMS) based multimode switch uses a movable mirror process to allow light to pass through the switch on activation or to be blocked/diverted when the switch is deactivated. This makes the switch particularly well suited for fail-safe bypass applications.

Switches are available in on/off, 1x2, and 2x2 configurations. There is also a high attenuation version of the 2x2 switch used for node bypass (i.e. FDDI) applications.

A standard PCB footprint allows the switch to be conveniently mounted with control electronics.

The standard switch is equipped with 62.5/125µm multimode fiber pigtailed with no connectors, but a variety of fiber and connector options are available.

We speak the language of light.™

For more information about our fiber optic products, contact Litton Poly-Scientific, Fiber Optic Products, 1213 North Main Street, Blacksburg, Virginia 24060-3100.

Fiber Optic Products

800-336-2112 ext.279

SPECIFICATIONS

	Min	Typ	Max	Unit
Environmental Ratings				
Operating Temperature Range	-30	—	85	°C
Storage Temperature Range	-40	—	85	°C
Humidity (non-condensing)	—	—	95	%RH
Mechanical Life	1.0	—	—	M CYCLE
Characteristics				
Actuation Voltage	4.75	5.0	5.5	V
Actuation Current	—	40	—	mA
Switching Time	—	—	10.0	ms
Loss* 1-3 port	—	0.7	0.8	dB
Loss* 2-4 port	—	0.7	0.8	dB
Loss* 3-4 port	—	0.8	1.0	dB
Loss* 1-2 port	—	0.8	1.0	dB
Loss* 1-2 port (high atten. bypass)	4.5	5.5	6.0	dB
Crosstalk	60	—	—	dB
Status Contacts @ 24VDC	—	—	1.0	A

*Loss without connectors.

PART NUMBERING

FO4635 —

BASIC PART NUMBER

INPUT PORTS

CODE	QUANTITY
01	1
02	2

OUTPUT PORTS

CODE	QUANTITY
01	1
02	2
B2	2HA*

* High Attenuation Bypass

MULTIMODE FIBER

CODE	SIZE	INDEX	NA
M	62.5/125µm	GRADED	.28
X	SPECIAL	Identify Before Sale	

WAVELENGTH

CODE	λ
8	850nm
3	1300nm
X	SPECIAL

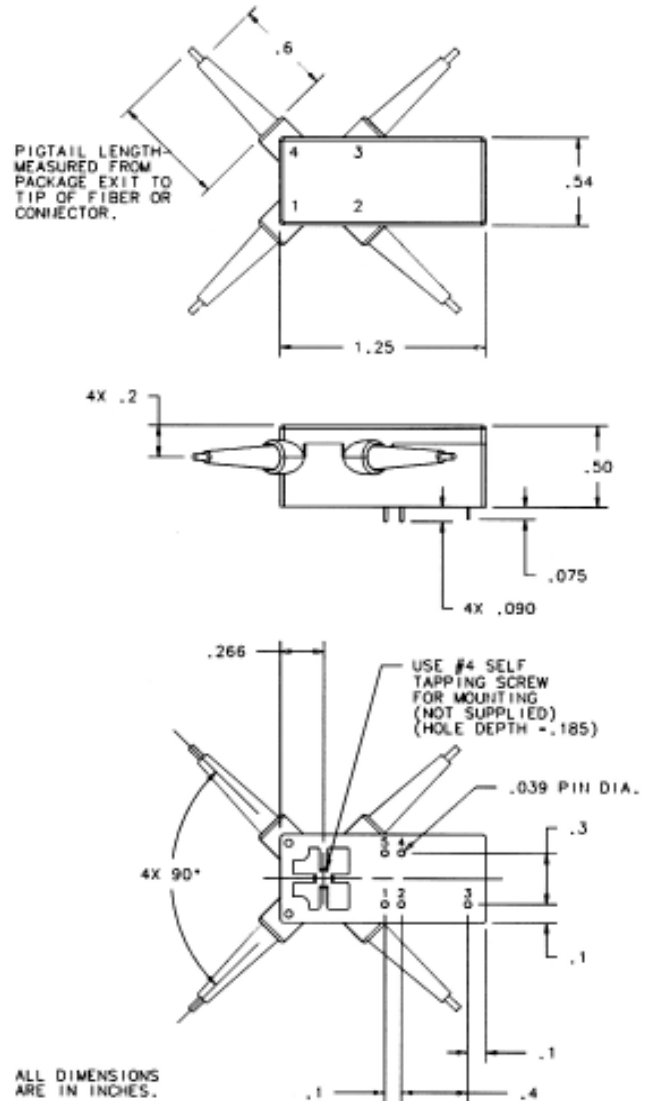
CONNECTOR

CODE	STYLE
NC	NONE
FC	FC/PC
SC	SC/PC
SM	SMA
ST	ST
XX	SPECIAL

PIGTAIL LENGTH

CODE	LENGTH
S	1.5 meters
X	SPECIAL

DIMENSIONS



TYPICAL SWITCH CONFIGURATION (2x2)

	OPTICAL PATH	STATUS CONTACTS
Switch on	1-3, 2-4	Closed
Switch off	1-2, 3-4	Open

SWITCH PIN CONFIGURATION

PIN NUMBER	DESCRIPTION
1	+5 VDC
2	Common
3	N.O. Status Contact
4	N.O. Status Contact
5	Not Used