

## FAST FIBER OPTIC 1x8 SWITCH

### OVERVIEW

The SW 1x8 fiber optic switch is a very fast opto-mechanical switch based on the MEMS technology. The component makes an optical connection between an optical port and either one of 8 input or output lines. The highly reliable switching mechanism use integrated micromirrors and features below 1 ms switching time and below 1.4 dB insertion loss. The switch is powered by a 5 V supply voltage. A 5 V TTL or CMOS drive signal is used to control the switching state.

The switching mechanism offers the reliability of a solid state device; it neither wears out nor degrades over time. Even after billions of cycles the switching quality stays constant. The miniature package withstands rugged environments and is well suited for direct mounting on printed circuit boards.

### FEATURES

- reliable
- 1.0 dB insertion loss
- 1 ms response time
- 60 dB crosstalk
- miniature size
- non-latching

### APPLICATIONS

- Optical Reconfiguration
- Instrumentation
- Provisioning

#### ORDERING INFORMATION

SW1x8-9N

#### Contact:

Sercalo microtechnology ltd  
Landstrasse 151, 9494 Schaan  
Principality of Liechtenstein  
Tel. +423 237 57 97 Fax. +423 237 57 48  
www.sercalo.com e-mail:info@sercalo.com

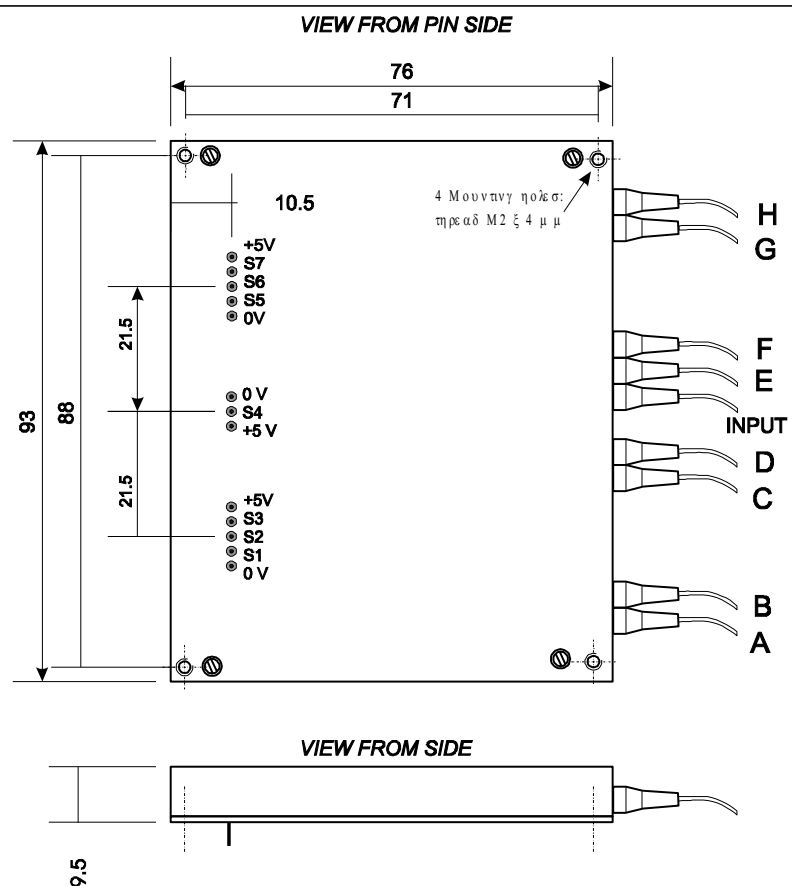
## TECHNICAL SPECIFICATIONS

	Unit	Min	Typ	Max
<b>Switch</b>				
Wavelength Range	nm	1240		1640
Insertion Loss	dB		0.8	1.4
Crosstalk	dB		75	60
Backreflection	dB		55	50
Polarisation Dependent Loss	dB			0.10
Switching Time	ms		0.5	1
Switching Voltage	V			5
Fiber Pigtail	μm		9/125/900	
Durability	cycles		no wear out	
<b>Package</b>				
Power Consumption	mW		40	
Operation Temperature	°C	0		70
Storage Temperature	°C	-40		85
Size (L x W x H)	mm		76 x 93 x 9.5	

### Optical Port Selection

S	S	S	S	S	S	S	Port
0	5	x	5	x	x	x	A
5	x	0	5	x	x	x	B
5	x	5	5	x	x	x	C
0	0	x	5	x	x	x	D
x	x	x	0	0	0	x	E
x	x	x	0	5	x	5	F
x	x	x	0	5	x	0	G
x	x	x	0	0	5	x	H

0 = 0 V (TTL or CMOS level)  
 5 = 5 V (TTL or CMOS level)  
 x = 0 V or 5 V



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**sercalo**