

## 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 1.2 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 small miniature package withstands rugged environments and is well suited for direct mounting on printed circuit boards.

### APPLICATIONS

- Optical Reconfiguration
- Instrumentation
- Provisioning

### ORDERING INFORMATION

SW1x8-9N

### FEATURES

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

#### Contact:

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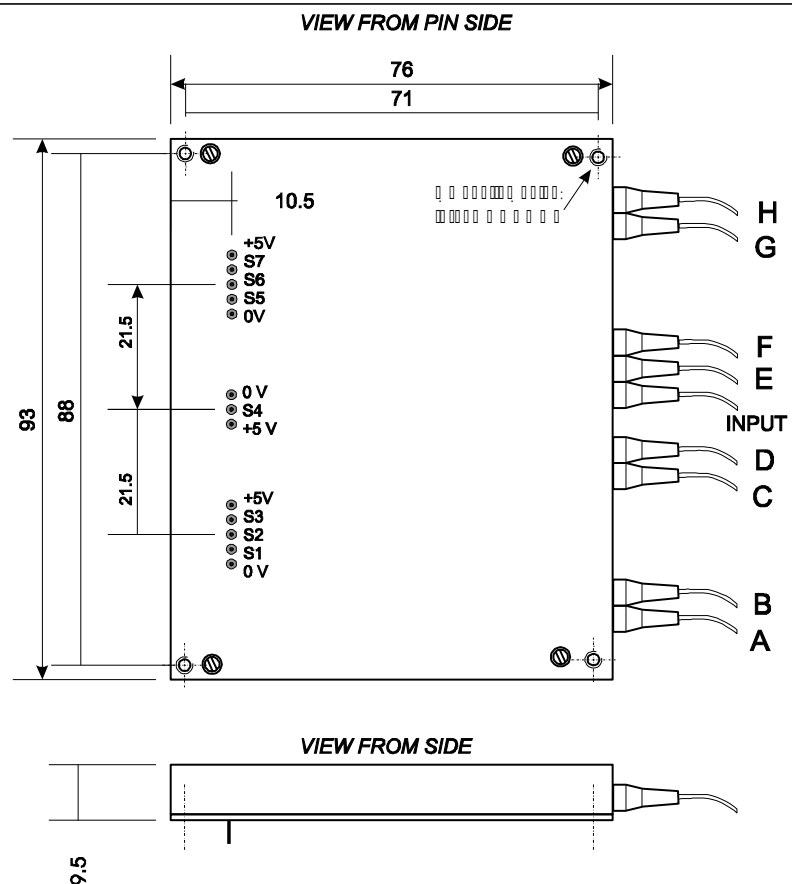
## TECHNICAL SPECIFICATIONS

	Unit	Min	Typ	Max
<b>Switch</b>				
Wavelength Range	nm	1240		1640
Insertion Loss	dB		0.8	1.2
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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