

## Electro-mechanical switch, 1x8, single mode and multi mode

### Features

- High switching speed
- Built-in position monitoring
- Direct Drive
- RoHS compliance



### Applications

- Optical network monitoring
- Optical measurement systems

### Description

The Switch-Cube 1x8 Optical Switches (LWL-FOSWs) are based on Opto-Mechanical technology with proven reliability. With the state-of-the-art technology developed, the performance is optimized for a wide range of fiber-optic applications.

Fully complied with Telcordia GR-1073-CORE and complied with applicable items of Telcordia GR-1221-CORE standard.

### Technical Specifications

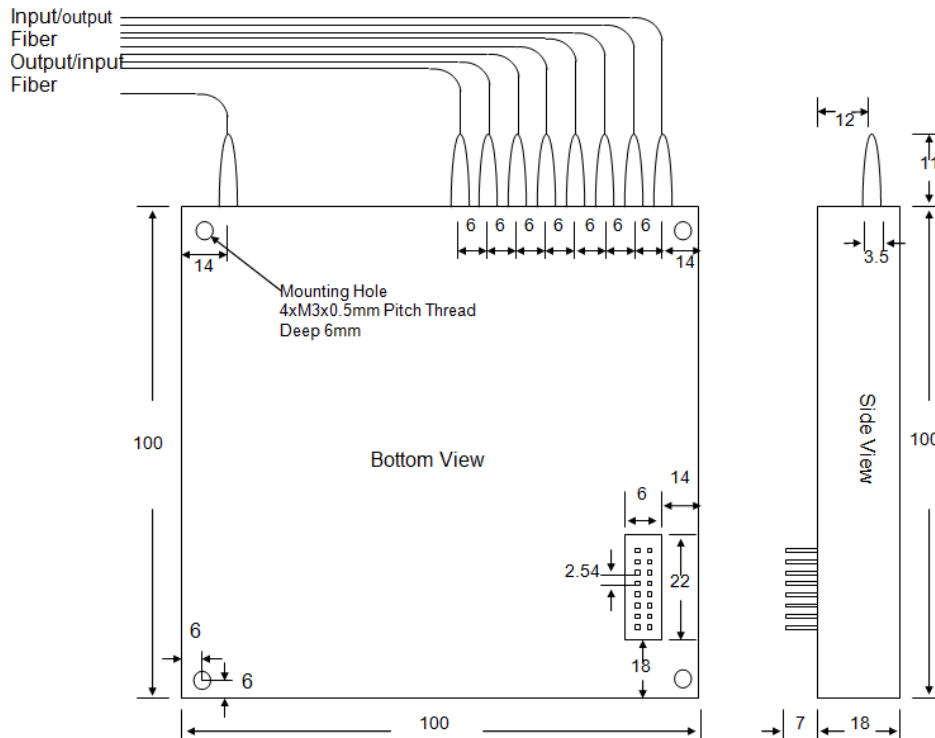
Electro-Optical Characteristics		
Parameter	single mode	multi mode
Wavelength Range (nm)	1280 - 1340 1520 - 1625	850 / 1300
Insertion Loss (dB), typ.	1.6	1.5
Insertion Loss (dB), max.	2.0	1.8
PDL (dB)	≤ 0.1	-
WDL (dB)	≤ 0.3	-
Return Loss (dB), typ.	≤ 0.3	-
Cross-Talk (dB)		≤ -80
Switching Time (ms)	≤ 10	≤ 10
Repeatability (dB)		± 0.1

Mechanical & Environmental		
Parameter	single mode	multi mode
Operating Temperature Range (°C)		- 5 - +70
Storage Temperature Range (°C)		- 40 - +70
Humidity (%RH)		5 – 85%
Durability (cycles)		> 10 <sup>7</sup>
Fiber pigtail		S.M. Fiber
Dimensions (HmxWmmxLmm)		18x100x100
Weight (g)		<400

Electrical Characteristics		
Parameter	single mode	multi mode
Operating Current (mA), typ		320 ( ±10%)
Operating Current (mA), max.		120 ( ±10%)
Operating Voltage (V), typ.		5.0
Operating Voltage (V), range		4.5 - 5.5
Power-Consumption (mW)		600 ( ±10%)

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### Outline Drawing



[mm]

### Ordering Information

No. of Input	No. of output	Operating Function	Fiber type	Fiber Cabling	Connector type
1	8	L = Latching N = Non-latching	9 = 9/125 $\mu$ m, Coming SMF-28 62 = 62.5/125 $\mu$ m	B = Bare Fiber L = 0.9mm loose tube	1 = None 2 = FC/PC 3 = FC/APC 4 = SC/APC 5 = SC/PC 6 = MU/PC 7 = ST/PC 8 = LC/PC 9 = SC/UPC A = MTRJ B = MU/UPC C = FC/UPC

Specification may change without prior notice.  
Note: All above are general specifications, except custom requirement.

HUBER+SUHNER Cube Optics AG  
is certified according to ISO 9001.

#### WAIVER

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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