

## Electro-mechanical switch, 1x16, 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 1x16 Optical Switches (LWL-FOSWs) are based on Opto-Mechanical technology with proven reliability. With the state-of-the-art technology developed, the performance of LWL-FOSWs 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

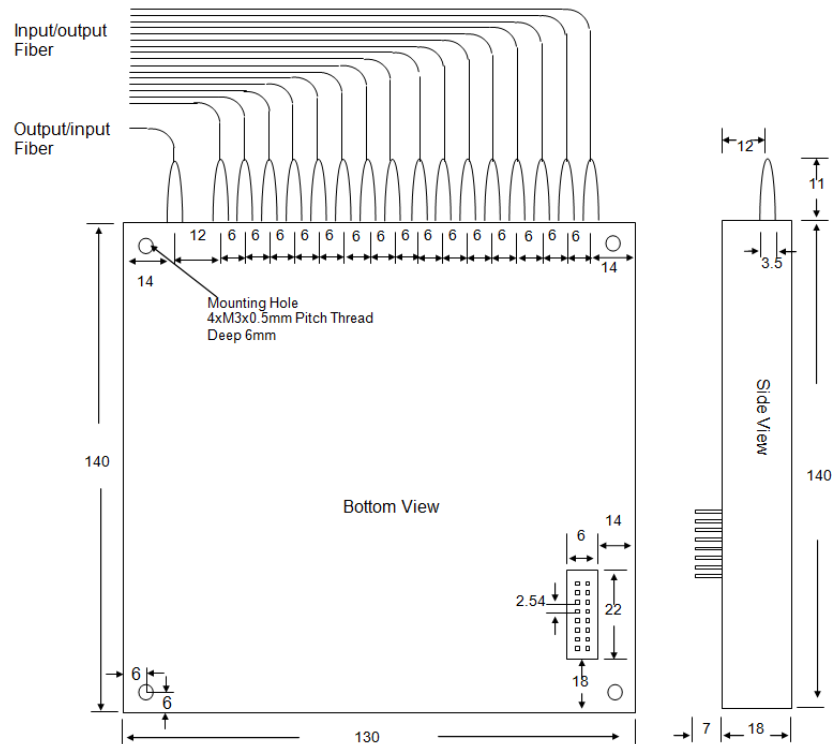
Electro-Optical Characteristics		
Parameter	single mode	multi mode
Wavelength Range (nm)	1280 - 1340 1520 - 1625	850 / 1300
Insertion Loss (dB), typ.	2.2	2.0
Insertion Loss (dB), max.	2.0	2.4
PDL (dB)	≤ 0.1	-
WDL (dB)	≤ 0.3	-
Return Loss (dB), typ.	≤ -40	-
Cross-Talk (dB)	≤ -80	
Switching Time (ms)	≤ 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>	
Dimensions (HmxWmmxLmm)	18x130x100	
Weight (g)	<1000	

Electrical Characteristics		
Parameter	single mode	multi mode
Operating Current (mA), typ	260 ( ±10%)	
Operating Current (mA), max.	1200 ( ±10%)	
Operating Voltage (V), typ.	5.0	
Operating Voltage (V), range	4.5 - 5.5	
Power-Consumption (mW)	1300 ( ±10%)	

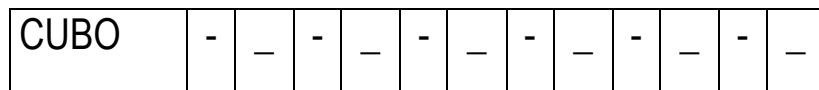
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### Outline Drawing



[mm]

### Ordering Information



No. of Input	No. of output	Operating Function	Fiber type	Fiber Cabling	Connector type
1	16	L = Latching N = Non-latching	9 = 9/125 $\mu$ m, 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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