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

**CUBO**

## Key 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.

Our SWITCH-Cubes switch and control your data flow.



standard cube

## Technical Specifications (Optical Characteristics)

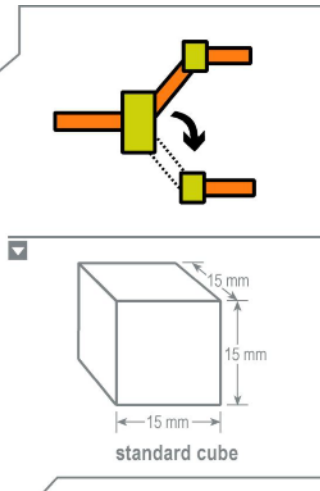| Parameter | | Specification | |
|---|---|---|---|
| | | S.M. fiber | M.M. fiber |
| Wavelength Range (nm) | | 1280 ~ 1340 | 850/1300 |
| | | 1520 ~ 1625 | |
| Insertion Loss (dB) | Typical | 1.6 | 1.5 |
| | MAX | 2.0 | 1.8 |
| PDL (dB) | | $\leq 0.1$ | — |
| WDL (dB) | | $\leq 0.3$ | — |
| Return Loss (dB), typ. | | $\leq$ -45 | — |
| Switching Time (ms) | | $\leq 10$ | $\leq 10$ |
| Crosstalk (dB) | | $\leq$ -80 | |
| Repeatability (dB) | | $\leq 0.1$ | |

## Technical Specifications (Electrical Characteristics)

| Parameter | Specification | |
|---|---|---|
| | S.M. fiber | M.M. fiber |
| Operating Current (mA), max | 320 ($\pm$10%) | |
| Operating Current (mA), typ. | 120 ($\pm$10%) | |
| Operating Voltage (V), typ. | 5.0 | |
| Operating Voltage (V), range | 4.5 ~ 5.5 | |
| Power Consumption (mW) | 600 ($\pm$10%) | |

**Cube Optics AG**
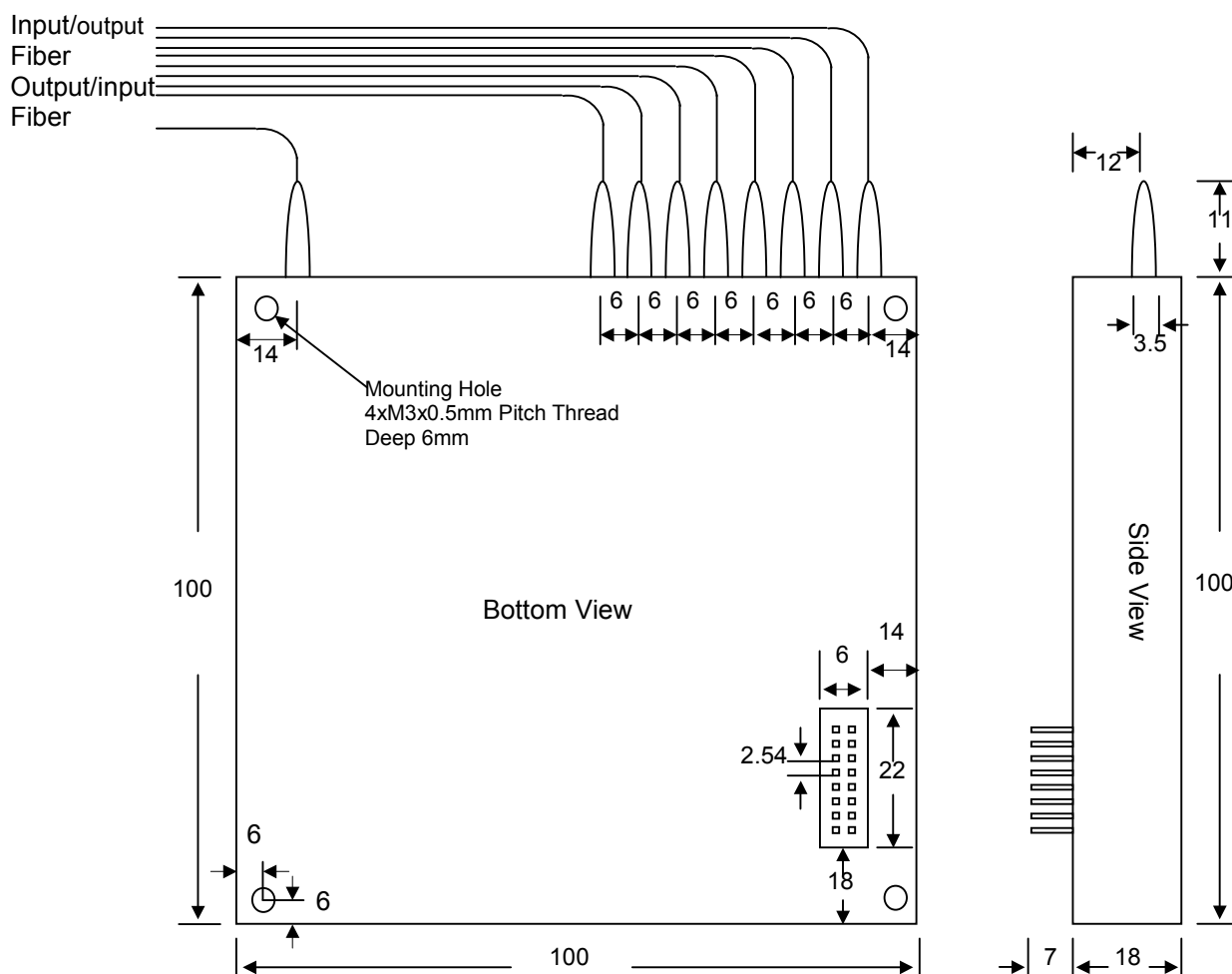
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## Technical Specifications (Mechanical & Environmental)

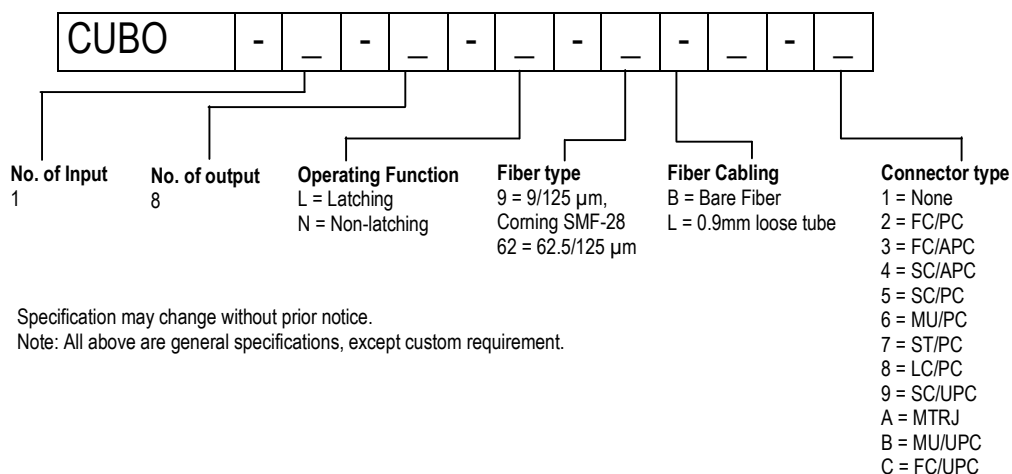| Parameter | Specification | |
|---|---|---|
| | S.M. fiber | M.M. fiber |
| Operating Temperature Range (°C) | -5 ~ 70 | -5 ~ 70 |
| Storage Temperature Range (°C) | -40 ~ 70 | |
| Hudimity | 5 ~ 85 %  RH | |
| Durability (Cycles) | > $10^7$ | |
| Dimension (Hmm×Wmm×Lmm) | 18×100×100 | |
| Weight (g) | <  400 | |

## Outline Drawing



Input/output Fiber
Output/input Fiber

Mounting Hole
4xM3x0.5mm Pitch Thread
Deep 6mm

Bottom View

Side View

**Cube Optics AG**

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## Ordering Information

| CUBO | - | _ | - | _ | - | _ | - | _ | - | _ | - | _ |
|------|---|---|---|---|---|---|---|---|---|---|---|---|

**No. of Input**
1

**No. of output**
8

**Operating Function**
L = Latching
N = Non-latching

**Fiber type**
9 = 9/125 µm,
Corning SMF-28
62 = 62.5/125 µm

**Fiber Cabling**
B = Bare Fiber
L = 0.9mm loose tube

**Connector type**
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.