# OFMS Series
# Mini 1 for 8 (1:8) Protection Switch

## OFMS Mini 1:8 Series

### Product Description

The OFMS (Optic Fiber Mechanical Switch) series Mini (1:8) Protection Switch is free space micro optic based opto-mechanical switch. The switch offers eight optical through paths and one protection path. Any of its eight through path can be switched to the protection path. Designed for network link or equipment protections, it measures only 100x45x11mm in size and features low IL, wide wavelength range, and a fast switching speed. It also provides one update port for cascading two (1:8) to become one (1:16) switch. Latching/non-latching options, built-in position monitors, and standard 5V DC driving voltage makes it easy for system integration.

Oplink provides customized design to meet special control and applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.




### Performance Specification

| Parameters | Value | | Unit |
|---|---|---|---|
| Operating Wavelength Range | 1260 ~ 1360 or 1525 ~ 1610 | 1260 ~ 1360 and 1525 ~ 1610 | nm |
| Insertion Loss [1,2] | ≤ 0.7 | ≤ 0.8 | dB |
| Polarization Dependent Loss | < 0.15 | | dB |
| Return Loss [2] | ≥ 45 | | dB |
| Channel Cross Talk | ≥ 50 | | dB |
| Repeatability | ± 0.05 | | dB |
| Switching Time | < 10 | | ms |
| Fiber Type | SMF-28 | | |
| Operating Temperature | 0 ~70 | | °C |
| Storage Temperature | -40 ~ 85 | | °C |
| Switch Type | Latching | | |
| Dimensions | 100.0 (L) x 45.0 (W) x 11.0 (H) | | mm |

Notes:
1) Insertion loss is specified at 1310 and/or 1550nm at 23°C. Add 0.5dB to include wavelength (within each window) and temperature dependence.
2) Excluding connectors.

### Features

- Wide operating wavelength range
- Fast switch speed
- Highly stable & reliable
- Low insertion loss
- Low PDL
- Mini size
- Built-in switching status monitor

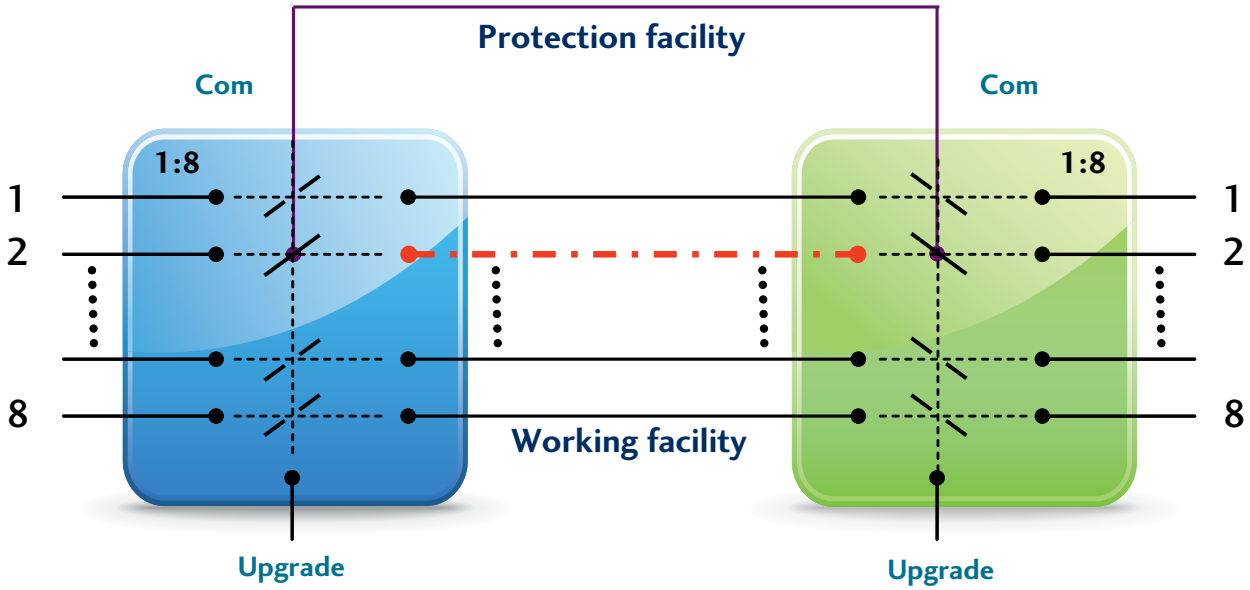
### Applications

- (1:8) optical link protection
- (1:8) equipment protection

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## Functional Diagram




**Normal state:** eight through paths
**Protection state:** one through path is switched to the protection path

## Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

OFMS | 1 | F | R | 8 | ☐ | 0 | 0 | 1 | ☐ | ☐ | ☐ |

**Wavelength**
C+L bands = E
1310nm = 3
1310+C+L = D

**Package Type**
P1 = 1

**Fiber Type**
SMF-28 250μm = 1
SMF-28 w/ 900μm loose tube = 2

**Fiber Length**
0.5meter = H
1.0meter = 1
1.5meter = 5
2.0meter = 2

**Connector Type**
None = 1
FC/PC =2
FC/SPC =3
FC/APC =4
SC/PC =5
SC/SPC =6
SC/APC =7
ST = 8
LC = 9
MU = A

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