

# OFMS SERIES MINI (1:8) PROTECTION SWITCHES

## OFMS Series

### Features

- ◆ Wide Operating Wavelength Range
- ◆ Fast Switch Speed
- ◆ Highly Stable & Reliable
- ◆ Low Insertion Loss
- ◆ Low PDL
- ◆ Built-in Switching Status Monitor

### Applications

- ◆ (1:8) Optical Link Protection
- ◆ (1:8) Equipment Protection

### OFMS Series Mini (1:8) Protection Switches

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 100x45x11 mm 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.



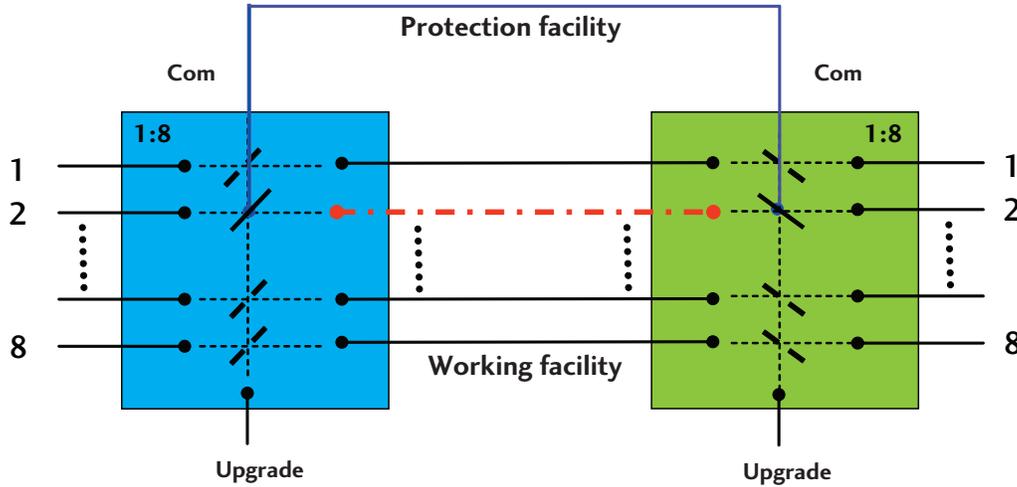
### Performance Specifications

Parameter	Value		Unit
	1260 ~ 1360 or 1525 ~ 1610	1260 ~ 1360 and 1525 ~ 1610	
Operating Wavelength Range			nm
Insertion Loss <sup>1,2</sup>	≤0.7	≤0.8	dB
Polarization Dependent Loss	<0.15		dB
Return Loss <sup>2</sup>	≥45		dB
Channel Cross Talk	≥50		dB
Repeatability	±0.05		dB
Switching Time	<10		ms
Optical Power Handling	500		mW
Fiber Type	SMF-28		
Operating Temperature	0 to 70		°C
Storage Temperature	- 40 to 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.

**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**  
PI=1

**Fiber Length**  
1.0 meter=1  
1.5 meters=5  
2.0 meters=2

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

**Connector**  
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