

# PRODUCT INFORMATION SHEET

## 1x4 Mechanical optical Switch

### ➤ Features

- Unmatched Low Cost
- Low Insertion Loss
- High Channel Isolation
- Highly Stable and Reliable
- Epoxy-Free Optical Path
- Latching or Non-Latching

### ➤ Applications:

- Configurable Optical Add/Drop
- Optical Signal Routing
- Optical Network Protection/Restoration
- Transmitter and Receiver Protection
- Network Test System
- Instrumentation

### ➤ Specifications

Parameter	Specification	
Operating Wavelength (nm)	1260 ~ 1360 or 1510 ~ 1610	1310/1550±40
Insertion Loss (dB)	≤0.6(P Grade), ≤0.8(A Grade)	≤0.8(P Grade), ≤1.0(A Grade)
Wavelength Dependent Loss (WDL) (dB)	≤ 0.25	≤ 0.30
Polarization Dependent Loss (PDL) (dB)	≤ 0.1	≤ 0.1
Repeatability(dB)	±0.02	±0.02
Channel Cross Talk (dB)	≥ 55	≥ 55
Return Loss (dB)	≥ 55	
Switching Speed (ms)	≤10	
Drive Voltage (V)	4.5~5.5	
Switching Current(mA)	<20	
Power Handling (mW)	500	
Durability (cycles)	10 Million	
Operating Temperature (°C)	0 ~ +70	
Storage Temperature (°C)	-40 ~ +85	
Dimensions (LxWxH) (mm)	28x26x10	

### ➤ Electrical Pin Configuration:

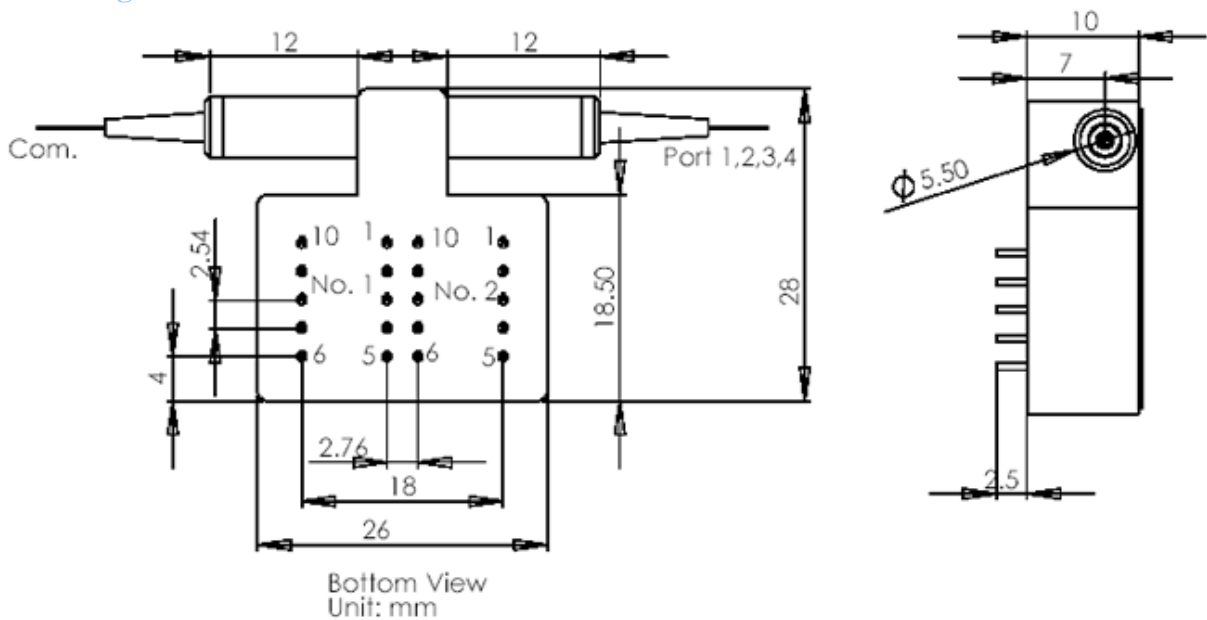
Relay Status		Electric Drive (Pin #)				Sensor Status (Pin #)			
		1	5	6	10	2-3	3-4	8-7	8-9
Latching Type	0 (Reset)	GND	GND	GND	+	Close	Open	Open	Close
	1 (set)	+	GND	GND	GND	Open	Close	Close	Open
Non-Latching Type	0 (Reset)	NC	NC	NC	NC	Close	Open	Open	Close
	1 (set)	+	NC	NC	GND	Open	Close	Close	Open

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## ➤ Optical Switch Configuration:

Relay No	1	2	Switch Status
Relay Status	0	0	C-Port 4
	0	1	C-Port 1
	1	0	C-Port 2
	1	1	C-Port 3

## ➤ Package Dimensions



## ➤ Ordering Information

**MS** ①-②-③-④-⑤-⑥-⑦

- |                   |                  |          |           |                 |                |             |
|-------------------|------------------|----------|-----------|-----------------|----------------|-------------|
| ① Option          | ② Wavelength     | ③ Port   | ④ Grade   | ⑤ Pigtail Style | ⑥ Fiber Length | ⑦ Connector |
| L - Latching      | 15 - 1510~1610nm | 0104=1x4 | P-P Grade | 1=Bare Fiber    | 1=1m           | 0=None      |
| N - Non- Latching | 13 -1260~1360nm  |          | A=A Grade | 2 =900um Jacket | 2=2m           | 1=FC/APC    |
| 35 -1310/1550nm   |                  |          |           |                 | 2=FC/PC        | 3=SC/APC    |
|                   |                  |          |           |                 |                | 4=SC/PC     |
|                   |                  |          |           |                 |                | 5=ST        |
|                   |                  |          |           |                 |                | 6=LC        |