

1x4 Multi Mode Mechanical Fiber Optic Switch (Non-Latching or Latching)



Features:

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

Applications:

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

Patents:

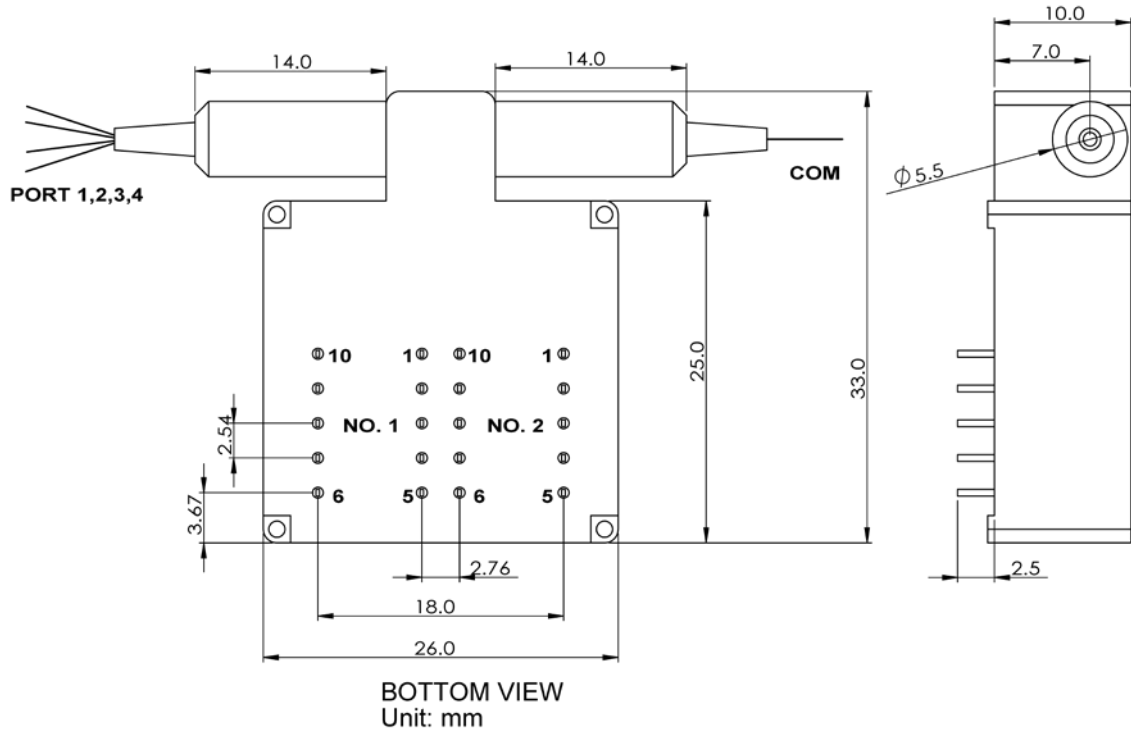
Patent Pending

Performance Specification:

Parameter	Specification			
Operating Wavelength (nm)	850±40 or 1310±40		850/1310±30	
Insertion Loss (dB)	P Grade	A Grade	P Grade	A Grade
	≤ 1.4	≤ 1.6	≤ 1.8	≤ 2.0
WDL (dB)	≤ 0.25		≤ 0.30	
PDL (dB)	≤ 0.1			
Channel Cross Talk (dB)	≥ 35			
Repeatability (dB)	± 0.02			
Return loss (dB)	≥ 35			
Switching Speed (ms)	≤ 10			
Drive Voltage (V)	5			
Coil Resistance (Pin 1-5 or 6-10)	178 ± 10% ohms			
Power Handling (mW)	500			
Durability (Cycles)	10 Million			
Operating Temperature (°C)	0 ~ +70			
Storage Temperature (°C)	-40 ~ +85			
Fiber Type	50/125 or 62.5/125 fiber			
Fiber Length (m)	Customer Specify			
Dimension (LxWxH) (mm)	L33 x W25.5 x H10.8			

Notes: All above specs are reference without connectors.

Package Dimension:



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

Optical Switch Configuration

Relay No.	1	2	Switch Status
Relay Status	0	0	Com – Port1
	1	0	Com – Port2
	0	1	Com – Port3
	1	1	Com – Port4

Ordering Information:

	Option	Operating Wavelength	Port	Grade	Fiber Type	Pigtail Type	Fiber Length	In/Out Connector
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SMMS	L=Latching N=Non-Latching	85=850nm 13=1310nm 38=850/1310nm	0104=1x4	P=P Grade A=A Grade	1=50/125 2=62.5/125	1=Bare Fiber 2=900um Jacket	1=1m 2=2m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC
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For Example: SMMS-N-85-0104-A-1-2-1-00