1X2 Mechanical Optical Switch

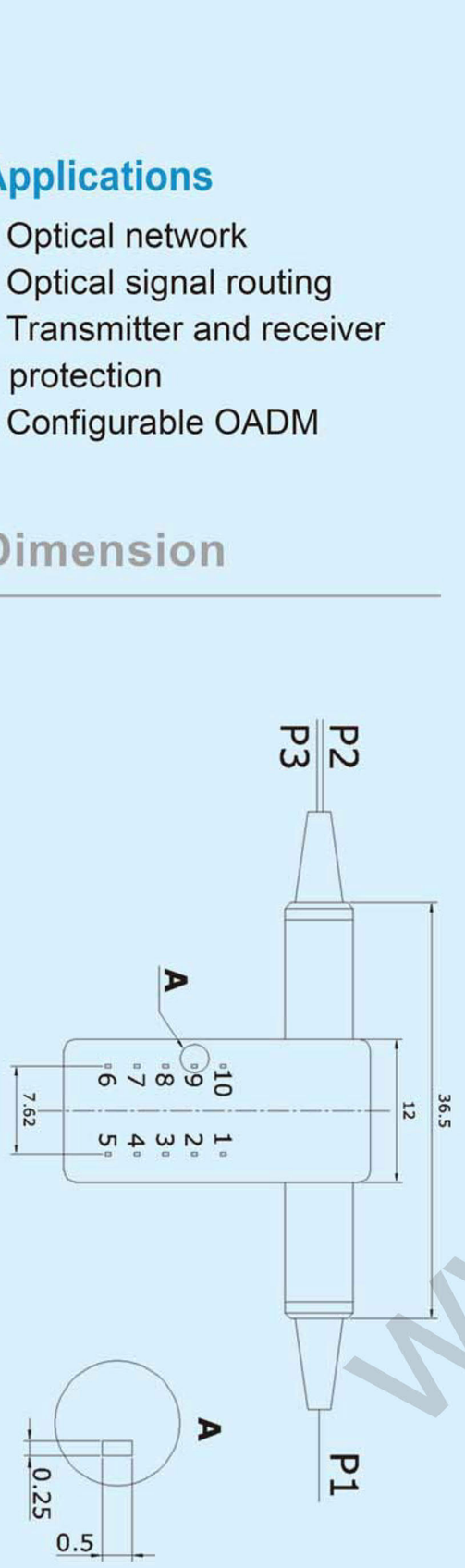
Features

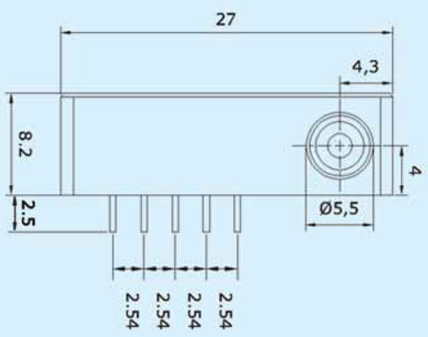
- Unmatched low cost
- Low insertion loss
- Low crosstalk
- High stability and reliability
- Epoxy free on optical path

Applications

- Optical network
- Optical signal routing
- Transmitter and receiver protection
- Configurable OADM

Dimension





Fibermart

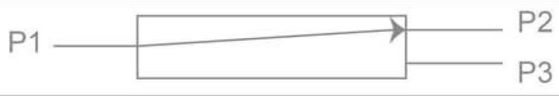
Performance Specifications

Parameter	1X2	
Operating Wavelength (nm)	850	1310/1550/1650
Wavelength Range (nm)	850±40	1260~1650
Insertion Loss (dB)	Typ: 0.8 Max: 1.2	Typ: 0.5 Max: 0.8
Return Loss (dB)	MM≥30 SM≥50	
Crosstalk (dB)	MM≥35 SM≥55	
PDL (dB)	≤0.05	
WDL (dB)	≤0.25	
TDL (dB)	≤0.25	
Repeatability (dB)	≤0.02	
Power Supply (V)	3.0 or 5.0	
Lifetime (Times)	$\geq 10^7$	
Switch Time (ms)	≤8	
Transmission Power (mW)	500	
Operating Temperature (℃)	-10~+70	
Storage Temperature (℃)	-40~+85	
Weight (g)	16	
Dimension (mm)	L27.0 x W12.0 x H8.2	

Pins

Type	Pin	Electric Drive				Status Sensor			
1 x 2	Light Pin	Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	P1-P2	V+	GND	--	--	Open	Close	Close	Open
	P1-P3	--	--	GND	V+	Close	Open	Open	Close
Non-Latching	P1-P2	V+	--	--	GND	Open	Close	Close	Open
	P1-P3	--	--	--	--	Close	Open	Open	Close

Route States

State A	State B
	

Electric

Specifications	Voltage	Current	Resistance
5V Latching	4.5~5.5	36~44mA	125Ω
5V Non-Latching	4.5~5.5	26~32mA	175Ω
3V Latching	2.7~3.3	54~66mA	50Ω
3V Non-Latching	2.7~3.3	39~47mA	70Ω

Ordering Information

☐	☐☐	☐	☐	☐	☐	☐	☐
Mode	**Wavelength**	**Voltage Type**	**Control Model**	**Fiber Type**	**Fiber Diameter**	**Fiber Length**	**Connector**
S=SM M=MM	85=850nm 13=1310nm 15=1550nm 65=1650nm 35=1310/1550nm S=Specify	3=3V 5=5V	L=Latching N=Non-Latching	1=SM 9/125 2=MM 50/125 3=MM 62.5/125 S=Specify	0=250μm 1=900μm	1=1m 2=1.5m S=Specify	0=None 1=FC/APC 2=FC/UPC 3=SC/APC 4=SC/UPC 5=LC/APC 6=LC/UPC 7=ST S=Specify