

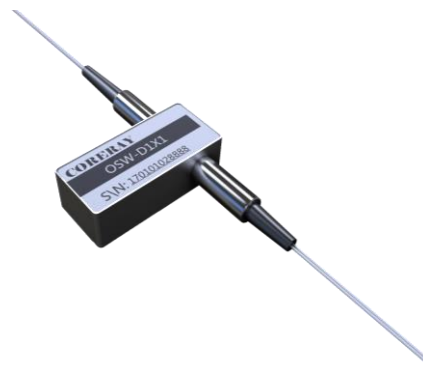
1x1、1x2、D1x2、2x2B、D2x2B 、2X2 optical switch

Features

- Low Insertion Loss
- High Stability & Reliability
- Wide Wavelength Range

Applications

- Optical Network Protection
- System Monitoring
- Research And Development



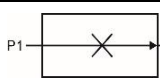

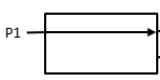
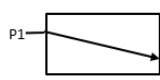

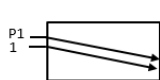

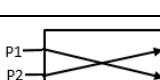
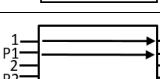

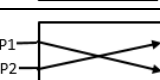
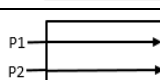
1x1、1x2、D1x2、2x2B、D2x2B 、2X2 optical switches are key components in the new generation of all optical networks, with industry-leading performance. With low insertion loss, small size, high reliability and good stability, it is widely used in Photoprotection systems, optical network testing and monitoring systems.

Specifications

Parameters	Unit	OSW-1x1、1x2、D1x2、2x2B、D2x2B 、2X2	
Wavelength Range	nm	650~1310	1260~1670
Testing Wavelength	nm	650/780/850/980/1064/1310	1310/1490/1550/1625/1650
Insertion Loss	dB	Typ:0.5 ,Max:0.8	
Return Loss	dB	≥30	≥50
Crosstalk	dB	≥35	≥55
PDL	dB	≤0.05	
WDL	dB	≤0.25	
Extinction Ratio1	dB	≥18	
TDL	dB	≤0.25	
Repeatability	dB	≤±0.02	
Power supply	v	3.0 or 5.0	
Lifetime	Cycle	≥10 ⁷	
Switch Time	ms	≤8	
Transmission Power	mW	≤500	
Operation Temperature	°C	-20~+70	
Storage Temperature	°C	-40~+85	
Weight	g	16	
Dimension	mm	(L)27×(W)12.6×(H)8.5(±0.2)	

▣ Pins

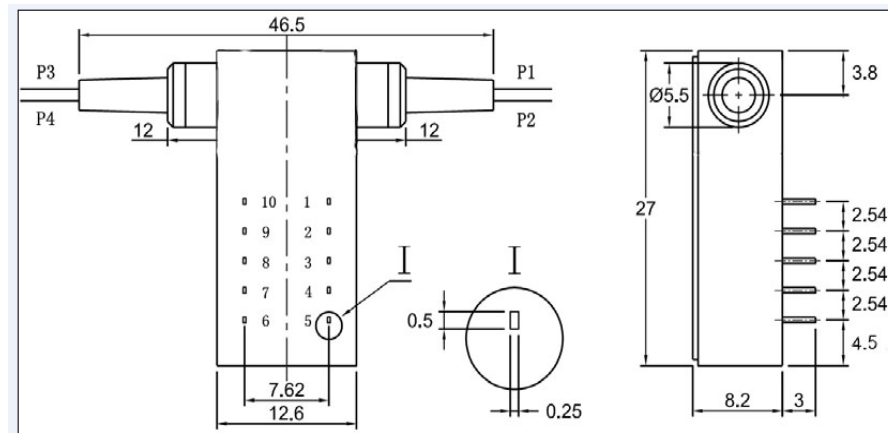
Optical Path		Electric Drive				Sensor Status	
		1	5	6	10	3-4 /7-8	2-3/8-9
Latching	A	N/A	N/A	GND	V+	OPEN	CLOSE
	B	V+	GND	N/A	N/A	CLOSE	OPEN
Non-latching	A	N/A	N/A	N/A	N/A	OPEN	CLOSE
	B	V+	N/A	N/A	GND	CLOSE	OPEN

Switch Type	Optical Path		Route States	
	A	B	A	B
1X1	P1-/P2	P1--P2		
1X2	P1-P2	P1-P3		
D1X2	1-2/P1-P2	1-3/P1-P3		
2X2B	1-3	1-4/2-3		
D2X2B	1-3/P1-P3	1-4/2-3 P1-P4/P2-P3		
2X2	P1-P4/P2-P3	P1-P3/P2-P4		

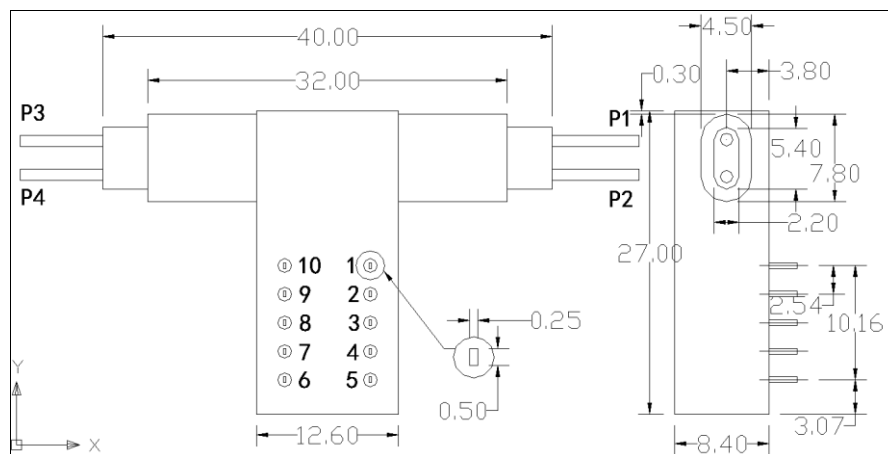
▣ Electrical parameters

	Voltage	current	Resistor
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

Size



1x1、1x2、D1x2、2x2B、D2x2B



2X2

Ordering Information: OSW -A-B-C-D-E-F-G -H

A	B	C	D	E	F	G	H
Type	Mode	Wavelength	Voltage	Control Model	Fiber Diameter	Fiber Length	Connector
1X1	SM:9/125um	85: 850nm	3: 3V	L: Latching	25:250um	05:0.5m	OO:None
1X2	M5: 50/125um	13: 1310nm	5: 5V	N:Non-Latching	90:900um	10:1.0m	FP: FC/PC
2X2B	M6: 62.5/125um	14: 1490nm				15:1.5m	FA:FC/APC
D1X2		15: 1550nm					SP: SC/PC
D2X2B		162: 1625nm					SA:SC/APC
2X2		165: 1650nm					LP: LC/PC
		13/15:1310/1550nm					LA:LC/APC