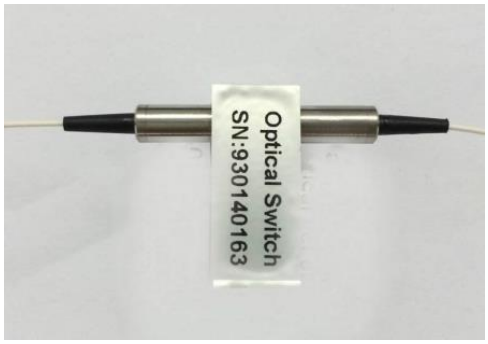
1×1 Optical switch

◆ Features

·Low Insertion Loss
·Wide Wavelength Range
·Low Crosstalk
·High Stability, High Reliability
·Epoxy-free on Optical Path
·Latching and Non-latching



◆ Applications

·R&D in Laboratory
·System Monitoring
·OADM
·MAN (Metropolitan Area Network)

◆ Specifications

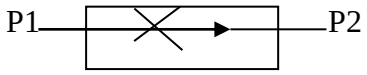
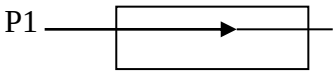
Parameters	Unit	TZ-FSW-1×2			
Wavelength Range	nm	850±40 / 1300±40		1260 ~ 1650	
Test Wavelength	nm	850 / 1300		1310 / 1550	
Insertion Loss 1, 2	dB	Typ:0.5	Max:0.8	Type:0.4	Max:0.6
Return Loss 1, 2	dB	MM ≥ 30 SM ≥ 50			
Crosstalk 1	dB	MM ≥ 65 SM ≥ 70			
PDL	dB	≤0.05			
WDL	dB	≤0.25			
Repeatability	dB	≤±0.02			
Operating Voltage	V	3.0 or 5.0			
Durability	Cycles	≥ 10 Million			
Switching Time	ms	≤8			
Optical Power	mW	≤500			
Operating Temperature	℃	-20 ~ +70			
Storage Temperature	℃	-40 ~ +85			
Relative Humidity	%	5 ~ 95			
Weight	g	14			
Dimension	mm	(L)27.0×(W)12.0×(H)8.2 ±0.2 or Customer design			

Note: [1] Within operating temperature and SOP.
[2]Excluding Connectors.

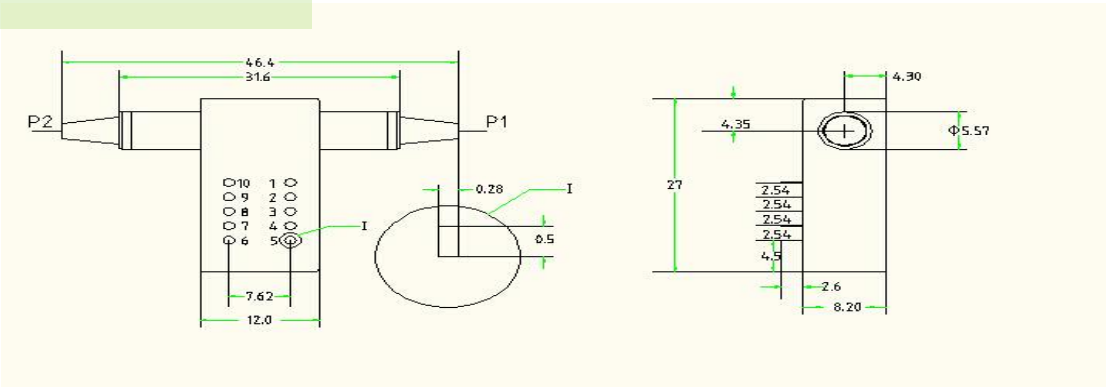
◆ Pin Configurations

Type	State	Optical Route	Electric Drive				Status Sensor			
1×1			Pin1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	A	Light close	---	---	GND	V+	Close	Open	Open	Close
	B	P1-P2	V+	GND	---	---	Open	Close	Close	Open
Non-latching	A	Light close	---	---	---	---	Close	Open	Open	Close
	B	P1-P2	V+	---	---	GND	Open	Close	Close	Open

◆ Optical Route

State A	State B
	

Dimension



◆ Electrical Specification

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

◆ Ordering Information:

Fiber Type	Voltage	Switch type	Test Wavelength	TubeType	Fiber length	Connector
SM:SM,9/125	3:3V	L:Latching	850:850nm	25:250um	05:0.5m±5cm	FP:FC/PC,FA:FC/APC
M5:MM,50/125			1310:1310nm	90:90um	10:1.0m±5cm	SP:SC/PC,SA:SC/APC
M6:MM,62.5/125	5:5V	N:Non-latching	13/15:1310/1550nm	X:Others	15:1.5m±5cm	LP:LC/PC,LA:LC/APC
X: Others			X:Others		X:Others	OO:None,X:Others