

Description

XH-OSW-2X2B bypass mechanical optical switch is a kind of optical path control device, which has the function of controlling the optical path and converting the optical path; it can realize that the whole optical path cannot communicate normally when the power failure occurs at a certain point of the single-fiber multi-point equipment. Bypassing the power-off point, the optical path can operate normally. It plays an important role in optical communication applications. Optical switches are mainly used in multi-channel optical monitoring in optical transmission systems, LAN multi-light source/detector automatic switching, and optical sensing multi-point dynamic monitoring system optical test systems for optical fibers, optical devices, networks and field engineering optical cables Test; optical device installation and adjustment.

Features

- Low insertion loss, wide wavelength range
- Low channel crosstalk, high stability, high reliability
- Simple control, small size, easy to embed in the circuit board
- Locking and non-locking control types can be selected

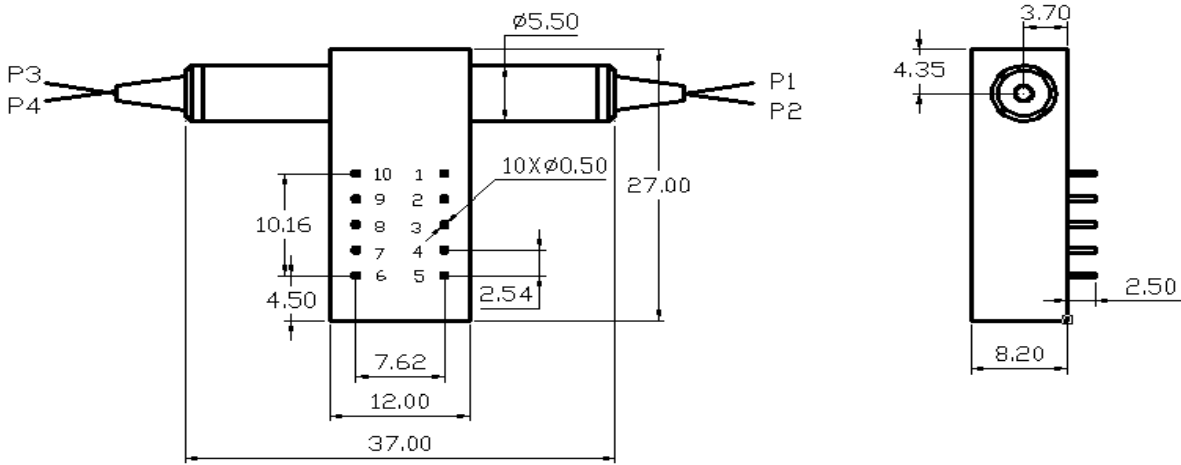


Performance

Parameter	Parameter value	
Model	XH-OSW-2X2B	
Insertion loss (dB)	Typical value : 0.5 Max : 1.0	
Wavelength range (nm)	800~1310	1260~1650
Working wavelength (nm)	850/980/1310	1310/1550/1625
Return Loss (dB)	MM≥30 SM ≥50	
Channel Crosstalk (dB)	MM≥ 35 SM ≥55	
PDL (dB)	≤0.05	
WDL (dB)	≤0.25	
TDL (dB)	≤0.25	
Repeatability (dB)	≤±0.02	
Switching Times (Times)	≥10 ⁷	
Switching Time (ms)	≤8	
Transmission Power (mW)	≤500	
Operating Voltage (V)	3 or 5	
Operating Temperature ()	-20~+70	
Storage Temperature ()	-40~+85	
Weight (g)	16	
Package Size (mm)	(L)27.0×(W)12×(H)8.2±0.2	

Tip: The above are commonly used optical switch parameters, if you have other requirements, please consult and customize.

Dimensions

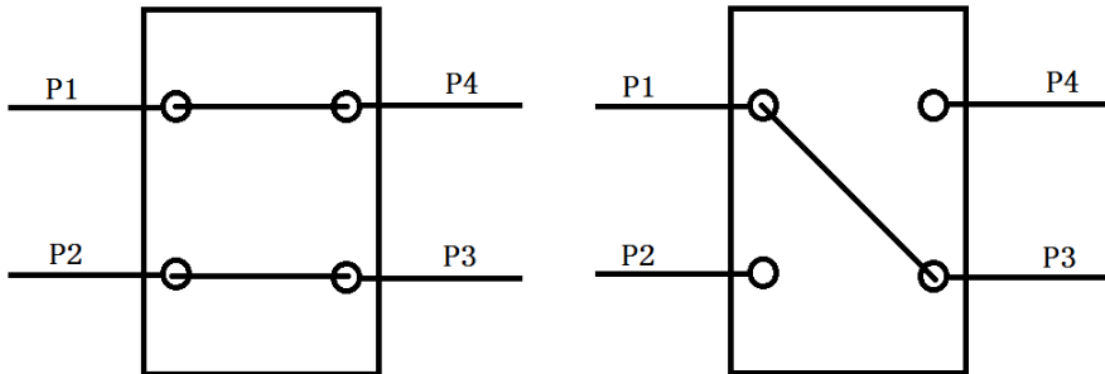


Pins

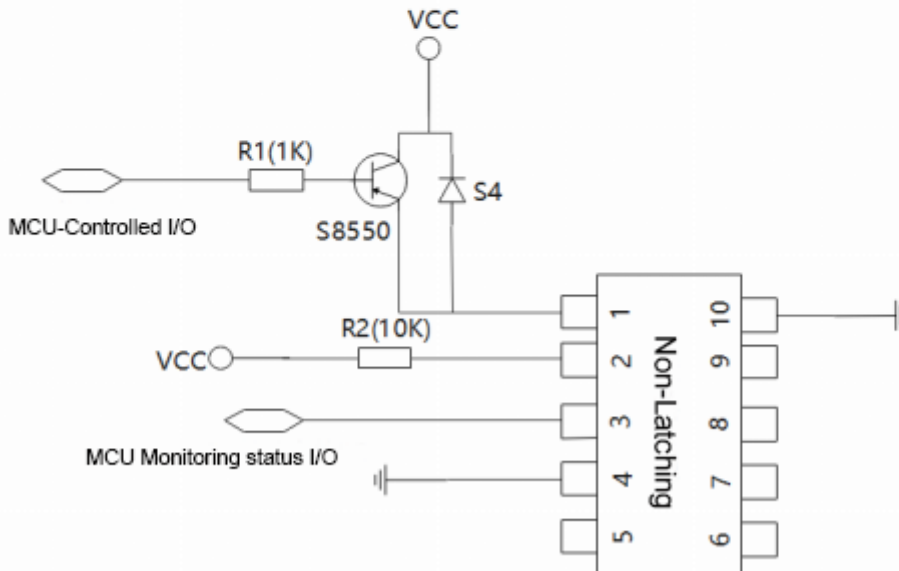
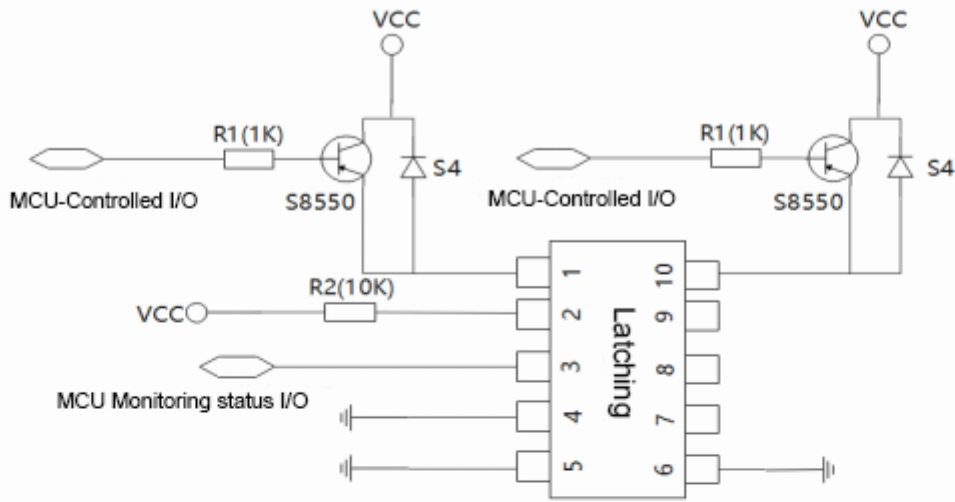
Parameters	Light path	Electric drive				Condition monitoring			
2x2B	channel	1	5	6	10	2-3	3-4	7-8	8-9
Latching	P1-P3	--	--	GND	V+	CLOSE	OPEN	OPEN	CLOSE
	P1-P4 P2-P3	V+	GND	--	--	OPEN	CLOSE	CLOSE	OPEN
Non-locking	P1-P3	--	--	--	--	CLOSE	OPEN	OPEN	CLOSE
	P1-P4 P2-P3	V+	--	--	GND	OPEN	CLOSE	CLOSE	OPEN

Description: The locking type optical switch only needs to be powered on to control the switching after power off, and the optical path will keep the state after switching after power off; the non-locking type optical switch needs to be kept powered on or off to realize the optical path switching, and the optical path will return to the state before the initial value is powered after power off.

Optical Route



Control circuit design reference



Ordering Information : XH-OSW-2X2B-A-B-C-D-E-F-G

Wavelength(A)	Fiber Type(B)	Power Supply(C)	Control Model(D)	Fiber Diameter (E)	Fiber Length(F)	Connector(G)
850:850nm 1310:1310nm 1550:1550nm 1310/1550:1310nm/1550nm X:other	SM:SM,9/125 M5:MM,50/125 M6:MM,62.5/125 25	3:3V 5:5V	L:locking N:Non-locking	25::250um 90:900um	05:0.5m 10:1.0m 15:1.5m X:other	NO:无 FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC X:other