

1x4 PM Optical Switch

Features:

- Solid-State high speed
- Ultra-high reliability
- Low insertion loss
- Compact size, Low cost
- Low power consumption

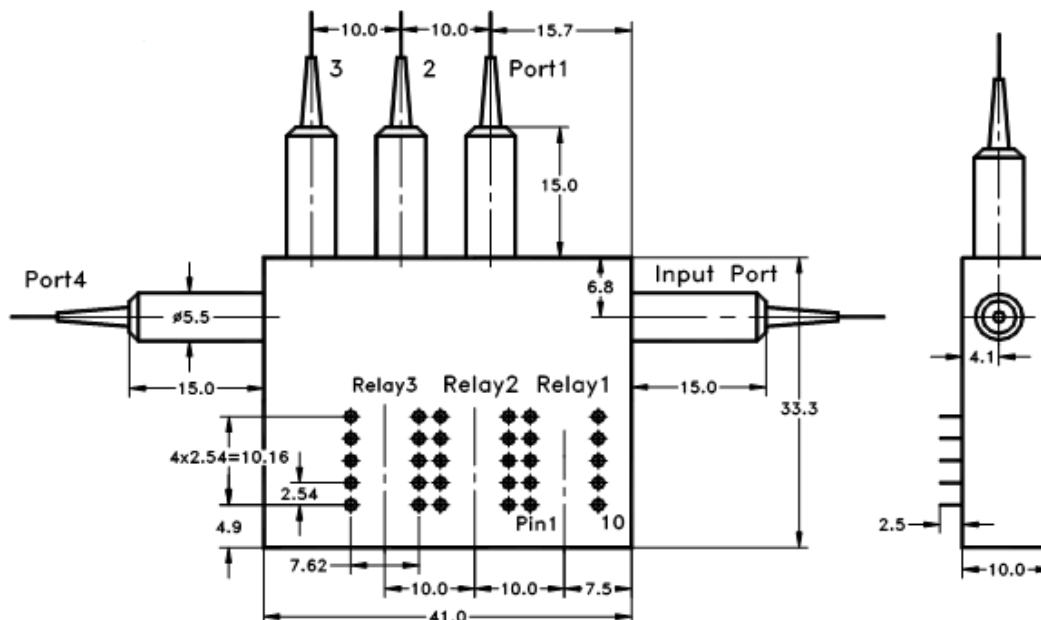
Applications:

- Optical blocking
- Configurable operation
- Instrumentation

Performance

Parameters	Unit	Min	Typical	Max
Operating Wavelength	nm	850,980,1060	1260~1360	1510~1610
Insertion Loss	dB	0.7~1.0		
Extinction Ratio	dB	≥18		
Return Loss	dB	≥55		
Cross talk	dB	≥50		
Switching Time	ms	3~10		
Repeatability	dB	≤0.05		
Operating Voltage	vdc	4.5	5	6
Operating Current	mA	30		
Voltage Pulse Width (Latching)	ms	12		
Switching Type		Latching / Non-Latching		
Operating Temperature	°C	-5~+70		
Optical Power Handling	mW	300~500		
Storage Temperature	°C	-40~+85		
Fiber Type		Panda 400, Panda 250		
Package Dimension	mm	71L x 48.3 W x 10H		

Dimension



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Electrical Driving Requirements

The load is a resistive coil which is activated by applying 5V (draw ~40mA). Applying too long pulse for the latching version will heat up the device. Acfiber offers a computer control kit with TTL and USB interfaces and Windows™ GUI. We also offer RS232 interface as an option – please contact Acfiber sales.

Latching Type:

Optical Path	Relay	Electric Drive		Status Sensor					
		Pin1	Pin10	Pin5	Pin6	Pin2-3	Pin3-4	Pin7-8	Pin8-9
In-Port1	Relay1	5V Pulse	GND	N/A	N/A	Open	Close	Close	Open
	Relay2,3	N/A	N/A	N/A	N/A				
In-Port2	Relay1	GND	5V Pulse	N/A	N/A	Close	Open	Open	Close
	Relay2	5V Pulse	GND	N/A	N/A	Open	Close	Close	Open
	Relay3	N/A	N/A	N/A	N/A				
In-Port3	Relay1,2	GND	5V Pulse	N/A	N/A	Close	Open	Open	Close
	Relay3	5V Pulse	GND	N/A	N/A	Open	Close	Close	Open
In-Port4	Relay1,2,3	GND	5V Pulse	N/A	N/A	Close	Open	Open	Close

Non-Latching Type:

Optical Path	Relay	Electric Drive		Status Sensor					
		Pin1	Pin10	Pin5	Pin6	Pin2-3	Pin3-4	Pin7-8	Pin8-9
In-Port1	Relay1	5.0V	GND	N/A	N/A	Open	Close	Close	Open
	Relay2,3	No Power		N/A	N/A	Close	Open	Open	Close
In-Port2	Relay2	5.0V	GND	N/A	N/A	Open	Close	Close	Open
	Relay1,3	No Power		N/A	N/A	Close	Close	Close	Open
In-Port3	Relay3	5.0V	GND	N/A	N/A	Open	Close	Close	Open
	Relay1,2	No Power		N/A	N/A	Close	Open	Open	Close
In-Port4	Relay1,2,3	No Power		N/A	N/A	Close	Open	Open	Close

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

A	B	C	D	E	F	G	H
Type	Wavelength	Switch	Control Model	Package	Fiber type	Fiber Length	Connector
1=1x4 2=4x1 00=Special	7=780 8=850 9=980 10=1060 13=1310 14=1410 15=1550 00=Special	3: 3V 5: 5V	L=Latching N= Non-Latching	1=Standard 00=Special	1=Panda 400 2=Panda 250 3=Bare fiber 4=900m loose tube 00=Special	25=0.25m 5=0.5m 10=1.0m 00=Special	OO=None FP= FC/PC FA:=FC/APC SP= SC/PC SA:=SC/APC SP:=ST/PC LC=LC DL=DuplexLC 00=Special