

N1x4 NanoSpeed Electro-Optical Switch

Features

- Nanosecond high speed
- High Stability, High Reliability
- Epoxy-free on Optical Path



Applications

- Optical switching
- Fault Protection
- Time Delay measurement
- System monitoring
- Sensing system

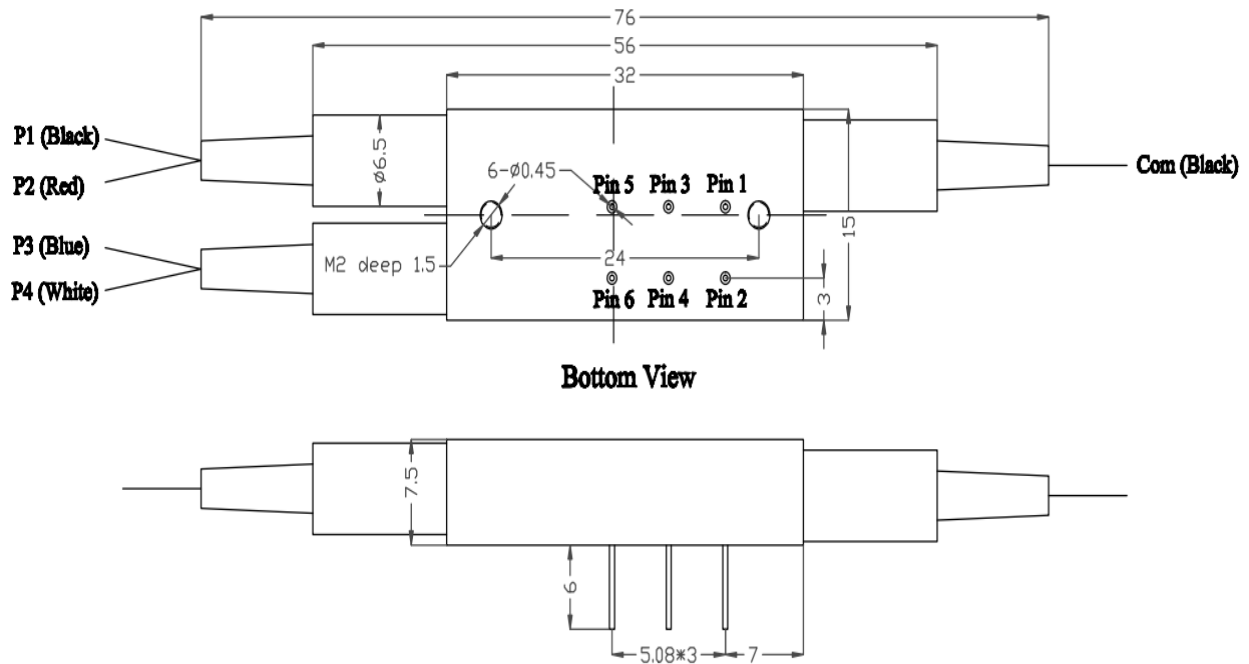
Product Description

The N1x4 NanoSpeed Electro-Optical Switch is connected to the optical path by connecting or blocking the optical signal. The switch has non-mechanical configurations and activated via an electrical control signal. The switch also has build-in circulator and isolator functions. Products are widely used in aerospace and military equipment.

Performance Specifications

Parameters	Unit	Specifications	
Wavelength Range	nm	1260 ~ 1360	1500 ~ 1600
Test Wavelength	nm	1310	1550
Insertion Loss ^{1, 2}	dB	≤ 1.5	
TDL	dB	≤ 0.30	
PDL	dB	≤ 0.20	
Return Loss	dB	≥ 50	
Crosstalk	dB	≥ 20	
Repeatability	dB	≤ ±0.01	
Switching Time	ns	≤ 300	
Durability	Cycles	≥10 Billions	
Switch Type	NA	Non-Latching	
Maximum Optical Power	mW	≤ 500	
Operating Temperature	℃	-5 ~ +70	
Storage Temperature	℃	-40 ~ +85	
Dimension	mm	(L)32.0×(W)15.0×(H)7.5 ±0.2	
Note: ¹ Test at room temperature and SOP. ² Excluding connectors. 0.2dB for one pair connectors.			

Mechanical Dimensions (Unit:mm)

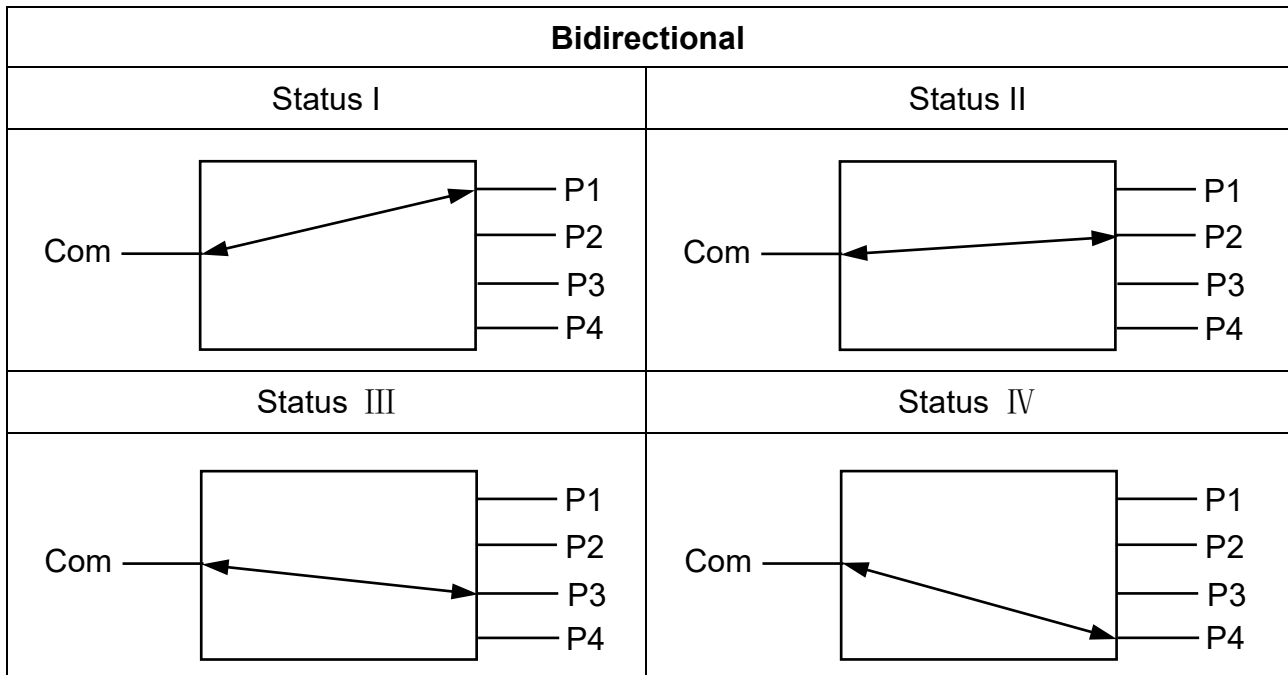


Electrical Drive

Type	Status	Optical Route	Electric Drive					
			Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
N1x4	I	Com – P1	--	--	--	--	V+	0
	II	Com – P2	V+	0	V+	0	V+	0
	III	Com – P3	--	--	V+	0	V+	0
	IV	Com – P4	V+	0	V+	0	--	--

Note: Voltage range is 300~350V.

Functional Diagram



Ordering Information

YFS-N1x4-□-□-□-□-□-□-□

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Switch Type	Fiber Type	Wavelength	Tube Type	Fiber Length	Connector
B:	SM:	1310:	250:	05:	OO: None
Bidirectional	SM, 9/125	1310nm	250um	0.5m±5cm	FC: FC/PC
	X:	1550:	900:	10:	FA: FC/APC
	Others	1550nm	900um	1.0m±5cm	SC: SC/PC
		X:	X:	X:	SA: SC/APC
		Others	Others	Others	LC: LC/PC
					X: Others