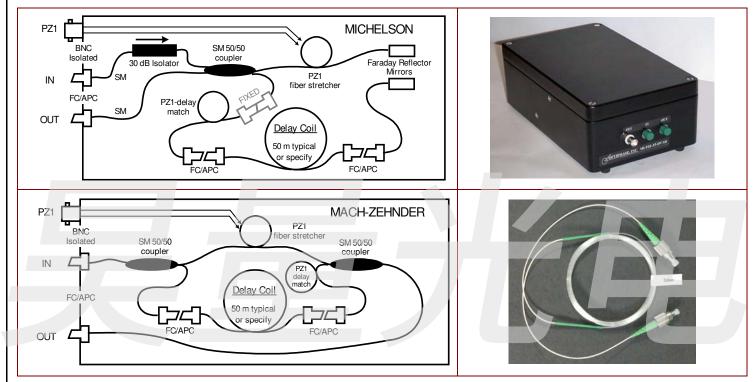
## OPTIPHASE A Halliburton Service

## **Fiber Interferometers**

## **APPLICATIONS**

- Laser Phase / Frequency noise testing
- Interferometric sensor simulation
- Path imbalance interferometer

*OPTIPHASE*, a leading supplier of ultra-high performance interferometric systems, offers **Fiber Interferometers** for use in precision test and measurement instrumentation as well as fiber sensing systems. These interferometers are driven by our own PZ1 Low-profile Fiber Stretcher with enhanced modulation, through a front panel BNC connector. Michelson and Mach-Zehnder interferometers are available in wavelengths from 1064 to 1550 nm. Each interferometer has a "zero meter" path mismatch which provides flexibility to change the delay length to match varying test applications. The standard length shipped is 50 meters. We also build custom interferometers. Contact us and let us know of your specific requirements.



Specifications						
INTERFEROMETER	MICHELSON			MACH - ZEHNDER		
Model Number	MFI-10-50	MFI-13-50	MFI-15-50	MZI-10-50	MZI-13-50	MZI-15-50
Operating Wavelength	1064 nm	1310 nm	1550 nm	1064 nm	1310 nm	1550 nm
Modulation						
Modulator Constant	2.5 rad/V	2.0 rad/V	1.6 rad/V	1.2 rad/V	1.0 rad/V	0.8 rad/V
Maximum Voltage Range	± 500V [off resonance, 1000V P-P]					
Maximum Frequency Range	See chart page 2, specified at 1550 nm					
Modulator Interface	BNC			BNC		
Path Mismatch [without delay]	Zero meter +/- 10 cm			Zero meter +/- 10 cm		
Fiber Type	HI-1060 SMF28e+		HI-1060	SMF28e+		
Optical Interface	FC/APC			FC/APC		
Optical Power Limit	250 mW			500 mW		
Dimensions & Weight	10.2"L X 6.3"W X 3.5H"; 6 lbs.			10.2"L X 6.3"W X 3.5"H; 6 lbs.		
Delay Coil						
Delay length range	0.5 meters to 1,000 meters			0.5 meters to 1,000 meters		
Standard length	50 meters			50 meters		
Fiber Type	HI-1060	SMF	28e+	HI-1060	SMF	28e+
Connectors	FC/APC			FC/APC		
Optional delay coils	Substitute "50" in the model number with desired length in meters					



## Fiber Interferometers Sample Applications

