

# Variable Optical Delay Line: VODL

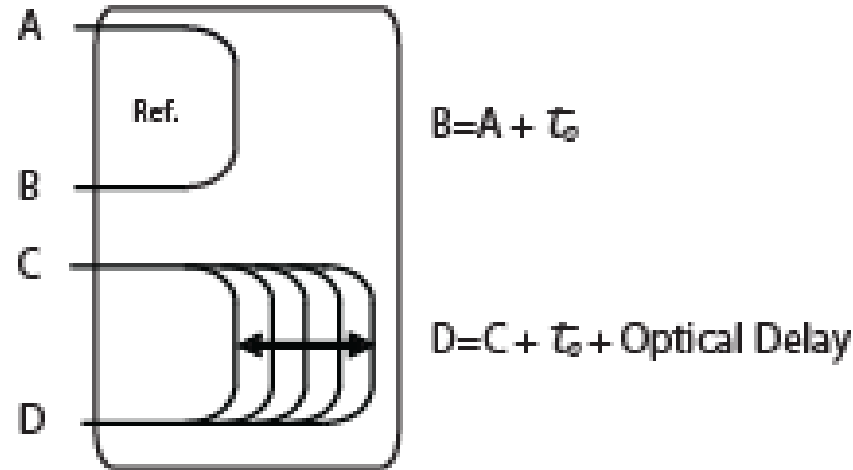


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# Principle



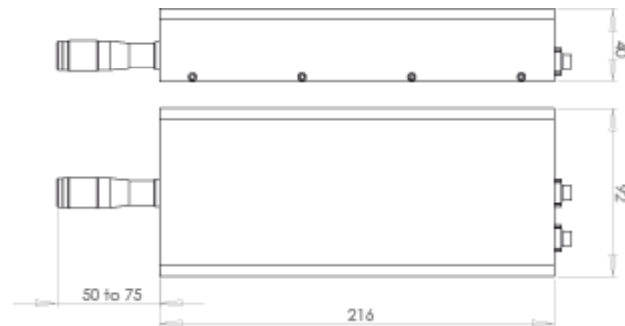
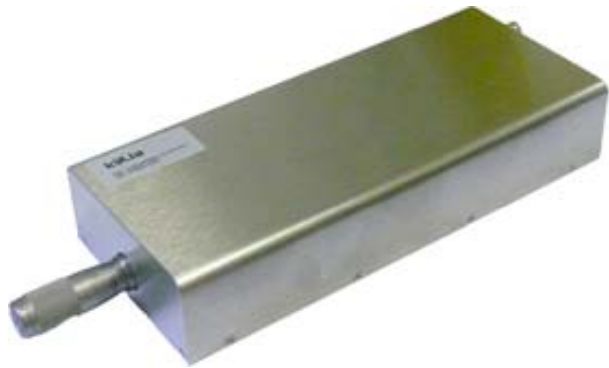
The vodl enables a very precise and stable control of light delay. It features a reference arm (in option) that enables the devices to give an absolute precision of the delay in respect with the reference. This delay is independent of the temperature because it is done in air. We can provide also a free space In & Out. For PM versions we can either block the unwanted polarization, the device acting also as a polarizer with high Polarization Extinction Ratio, or keeping both polarizations, while minimizing crosstalk between polarizations.

# Performances



parameter		unit	VODL specifications			
			SM-300	SM-600	PM-300	PM-600
Fibre Type			SM		PM	
IL		dB	< 1		< 1.5	
PDL		dB	< 0.3		NA	
Polarization Extinction Ratio		dB	NA		> 25	
Operating Central Wavelength		nm	400 to 2000			
Operating Bandwidth		nm	> 100			
Return Loss		dB	> 35			
Maximum Optical Power		mW	300			
Optical Delay Range		ps	0 to 300	0 to 600	0 to 300	0 to 600
Absolute Accuracy (for reference option only)		M : manual P : piloted	0.25 0.80			
Relative Accuracy		M : manual P : piloted	0.15 0.40	0.30 0.80	0.15 0.40	0.30 0.80
Sensitivity		M : manual P : piloted	0.03 0.005	0.06 0.01	0.03 0.005	0.06 0.01
Operating Temperature Range		M : manual P : piloted	0 to 70 10 to 35			
Dimensions		M : manual P : piloted	40 x 92 x 216 19" rack			

# Package



# Applications

- Optical paths matching,
- Balancing optical receivers or photodiodes,
- Signals synchronisation,
- Interferometric measurements.



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