

# ZMI Single Beam Interferometer (SBI)

P/N	DESCRIPTION	OPTICAL	
6191-0553-01	Single beam interferometer	Linear displacement resolution (nominal)	0.62 nm (ZMI 2000) 0.31 nm (ZMI 4000)
PHYSICAL CHARACTERISTICS		Out-of-parallelism of transmitted beam to input beam	≤10 arc min
Dimensions	See Figure	Maximum error due to tolerances in polarizing optical elements	± 0.8 nm (0.03 μin)
Weight	85 grams (3.0 oz)	Thermal drift coefficient (typical) (change of indicated distance per degree C temperature change)	< 0.022 micrometer/degree C ( < 0.854 microinch/degree C)
Materials	Housing- magnetic stainless steel Optics- BK7, crystalline quartz Adhesives- vacuum grade, low volatility	Signal Efficiency	70 - 74%
COMPONENTS			
Included	Polarization Beamsplitter, Quarter Waveplate, Retroreflector Assembly		
Not Included	Target Retroreflector, Fiber Optic Pickup		

