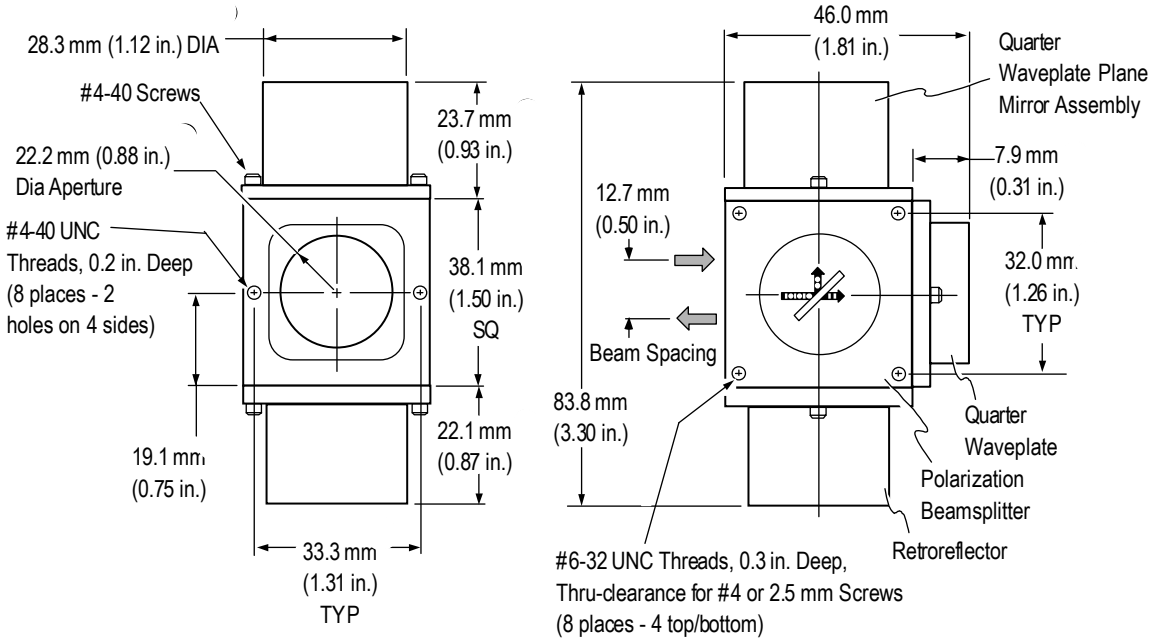
ZMI High Stability Plane Mirror Interferometer (HSPMI)

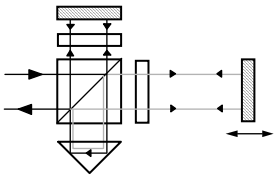
P/N	DESCRIPTION
6191-0318-01	HSPMI, right-angle
6191-0318-02	HSPMI, striahgt-through
PHYSICAL CHARACTERISTICS	
Dimensions	See Figure
Weight	305 grams (10.6 oz)
Materials	Housing- magnetic stainless steel Optics- BK7, crystalline quartz, Zerodur Adhesives- vacuum grade, low volaility
COMPONENTS	
Included	Polarization Beamsplitter, Retroreflector, Quarter Waveplate, Quarter Waveplate Plane Mirror Assembly
Not Included	Plane Mirror, Fiber Optic Pickup

OPTICAL	
Linear displacement resolution (nominal)	0.31 nm (ZMI 2000) 0.15 nm (ZMI 4000)
Out-of-parallelism of transmitted beam to input beam	≤10 arc min
Maximum error due to tolerances in polarizing optical elements	± 1 nm (0.04 µin)
Thermal drift coefficient (typical) (change of indicated distance per degree C temperature change)	< 0.018 micrometer/degree C (< 0.724 microinch/degree C)
Signal Efficiency	60% with plane mirror having 99% reflectance at 633 nm at normal incidence

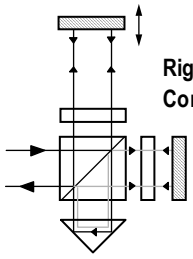
Straight-through Configuration Shown



Straight-through Configuration



Right-angle Configuration



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SS-0050 07/09