



Specifications

For Aurora Scientific Model: 400A Series

Model #	400A	402A	403A	403A-CF	404A	405A	406A	407A
Force Specifications								
Maximum Force [± mN]	50	500	5	2	100	10	0.5	1000
Resolution [μN]	1.0	10.0	0.1	0.04	2.0	0.2	0.01	20.0
Scale Factor [mN/Volt ±2%]	5.0	50.0	0.5	0.2	10.0	1.0	0.05	100.0
Signal Linearity ¹ [%]	99	99	99	99	99	99	99	99
Step Response Time ² [millisecond]	0.3	0.1	1.0	1.0	0.3	1.0	5.0	0.1
Resonant Frequency ³ [Hz]	2,000	4,000	600	200	2,000	600	100	4,000
Compliance [μm/mN]	0.1	0.01	1.0	2.5	0.1	1.0	10.0	0.01
Zero Drift [μN/°C]	5	50	0.5	0.2	10	1	0.05	100
Gain Drift [%/°C]	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Hysteresis [% of force change]	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Overload Force [mN]	250	2,500	25	10	250	25	2.5	2,500
Output Tube Length (L) [mm]	7	7	7	N/A	7	7	7	7
Output Tube Diameter (D) [mm]	0.9	1.1	0.9	N/A	0.9	0.9	0.9	1.1
General Specifications								
Operating Temperature [°C]	0 - 40							
Power Required	100, 120, 220, 240 VAC, 50/60 Hz. available							
Power Consumption [W]	20							
Controller Weight [kg]	2.5							
Head Weight [g]	105							
Controller Dimensions [cm]	21W (1/2 rack mount) x 25D x 9H (2U)							

¹ Over full force range

² 1 to 99%

³ -3dB point



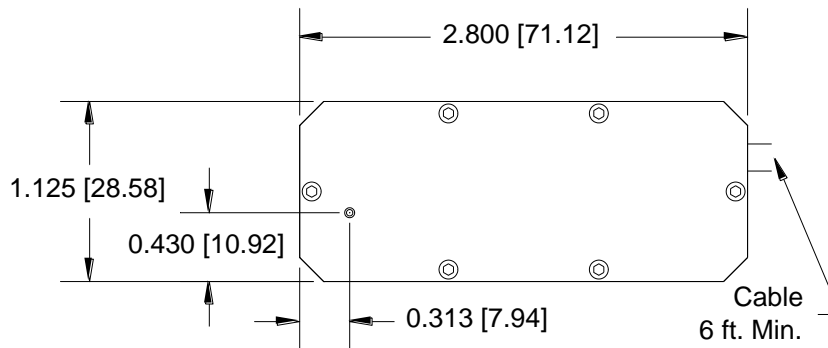
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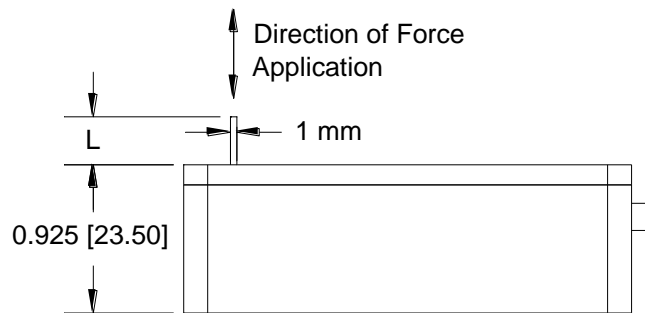
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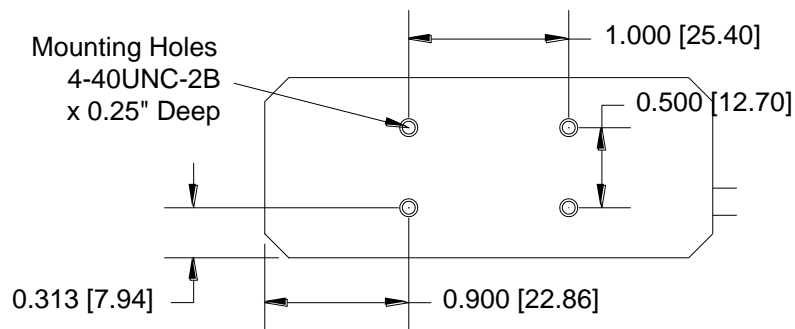
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TOP VIEW



SIDE VIEW



BOTTOM VIEW

Dimensions: inches [mm]