



Specifications

For Aurora Scientific Model: 400B Series

Model #	400B	402B	403B	404B	405B	406B	407B
Force Specifications							
Maximum Force [\pm mN]	50	500	5	100	10	0.5	1000
Resolution [μ N]	1.0	10.0	0.1	2.0	0.2	0.01	20.0
Scale Factor [mN/Volt \pm 2%]	5.0	50.0	0.5	10.0	1.0	0.05	100.0
Signal Linearity ¹ [%]	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Step Response Time ² [millisecond]	0.3	0.1	1.0	0.3	1.0	5.0	0.1
Resonant Frequency ³ [Hz]	2,000	4,000	600	2,000	600	100	4,000
Compliance [μ m/mN]	0.1	0.01	1.0	0.1	1.0	10.0	0.01
Zero Drift [μ N/ $^{\circ}$ C]	5	50	0.5	10	1	0.05	100
Gain Drift [%/ $^{\circ}$ C]	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
Maximum Overload Force [mN]	250	2,500	25	250	25	2.5	2,500
Output Tube Length (L) [mm]	7	7	7	7	7	7	7
Output Tube Diameter (D) [mm]	0.9	1.1	0.9	0.9	0.9	0.9	1.1
General Specifications							
Operating Temperature [$^{\circ}$ 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



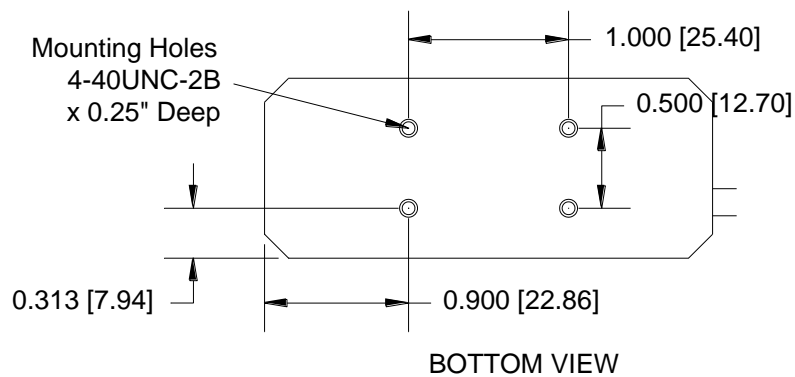
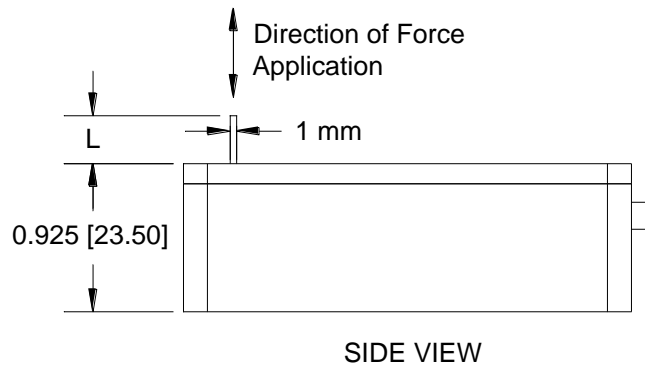
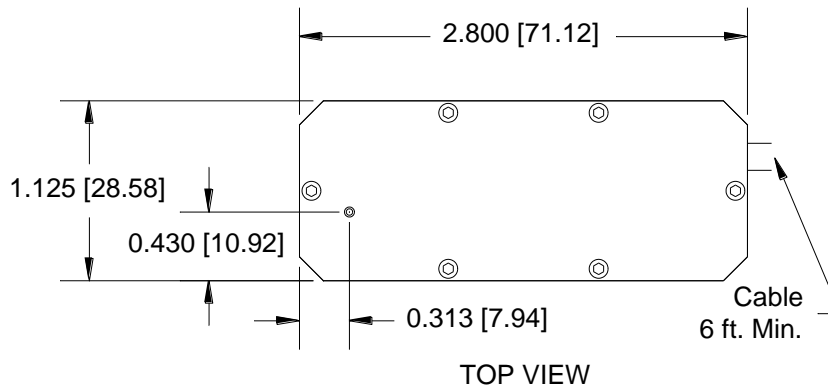
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Dimensions: inches [mm]