



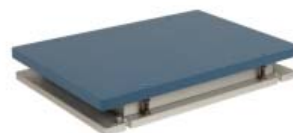
Metric

## BMS400600

OPTIMA™ BIOMECHANICS MEASUREMENT SERIES (BMS)

PREVIOUS MN: BP400600-OP

The BMS400600 is equipped with through-top access holes, features AMTI's advanced Optima technology – providing industry leading accuracy at no additional cost. It offers a 2:3 width-to-length ratio, ideal for platform array installations which provide the flexibility to accommodate various activities and stride lengths.



Key performance features include:

- Average COP accuracy of just a fraction of a millimeter (typically less than 0.5 mm.)
- Crosstalk values typically  $\pm 0.2\%$  of applied load
- Measurement accuracy  $\pm 0.5\%$  of applied load\*

## SPECIFICATIONS

Units:  Capacity:

Dimensions(WxLxH)	400 x 600 x 82.55 mm	Mounting hardware	Recommended
Weight	31.82 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required included OPT-SC
Top plate material	Aluminum	Analog outputs	6 Channels
Temperature range	-17.78 to 51.67°C	Digital outputs	USB: see Notes below
Excitation	10V maximum	Crosstalk*	$\pm 0.2\%$ of applied load
Fx, Fy, Fz hysteresis	$\pm 0.2\%$ full scale output		
COP Accuracy*	typically less than 0.5 mm.	Measurement Accuracy*	$\pm 0.5\%$ of applied load*

\*Typical value: minimum applied load of 50 lbs

Channel	Fx	Fy	Fz	Units	Mx	My	Mz	Units
Capacity	2224	2224	4448	N	1332	892	666	N-m
Sensitivity	0.674	0.674	0.169	$\mu\text{v/v-N}$	1.4	1.78	3.27	$\mu\text{v/v-N-m}$
Natural frequency	280	280	370	Hz	-	-	-	Hz

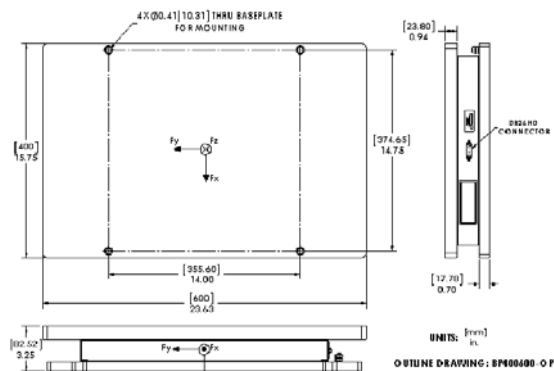
Notes: Digital output is achieved with the included **Optima Signal Conditioner**

Published specifications subject to change without notice.

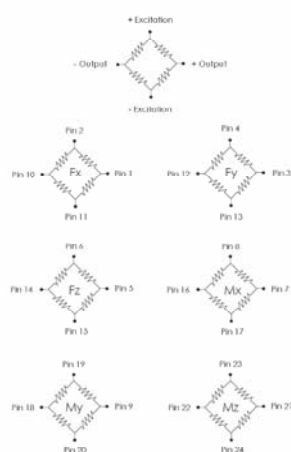
Last modified:2019-06-22

## TECHNICAL DRAWING

### Footprint Drawing



### Electrical Drawing



Bridge Fz = 350 ohms  
 Bridges Fx: Fy: Mx: My: Mz = 700 ohms  
 Connector type:  
 DB26HD DIGIKEY 1826ME-ND