

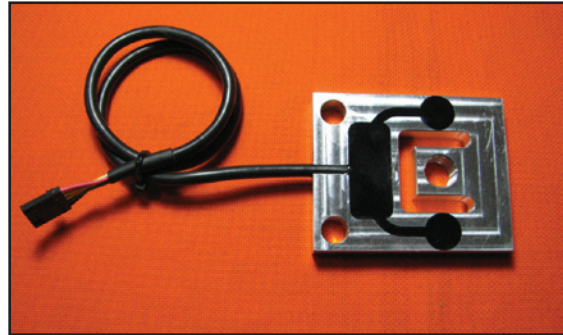
HSPB - LOAD FORCE SENSOR

Like the HPB sensor, the HSPB Load Force Sensor is an extremely accurate, low profile load sensor with great adaptability and flexibility. It is ideal for any situation where a single load sensor is appropriate, regardless of platform size. Unlike most single point load cells, the HSPB has no limit to the size of platform that can be attached. Its small form and accuracy make it an excellent choice for all kinds of scales – baby scales, medical office scales, baggage and retail scanner scales, and retail self-checkout systems. The HSPB Load Force Sensor is available in four different ranges: 50 kg, 100 kg, 200 kg and 500 kg.

- **LESS MOMENT SENSITIVE THAN OTHER LOAD SENSORS**
- **LOW PROFILE (A HALF INCH OR LESS, DEPENDING ON MODEL)**
- **EXTREME ACCURACY**
- **FOR LOAD RANGES OF 50 – 500 KG**
- **ADAPTABLE TO COUNTLESS APPLICATIONS**
- **PERFECT FOR SINGLE-SENSOR SYSTEMS WITH LARGE PLATFORMS**

SPECIFICATIONS

LOAD RANGES:	50 – 100 kg; 200 – 500 kg, depending on model
MATERIAL:	Aluminum – Stainless Steel Option
OUTPUT:	1.0 mv/V, $\pm .01$
BRIDGE RESISTANCE:	
INPUT:	386 \pm 10 ohms
OUTPUT:	350 \pm 3 ohms
EXCITATION:	5 VDC nominal; 15 VDC maximum
SAFE OVERLOAD:	300% of full scale
ULTIMATE OVERLOAD:	400% of full scale
CABLE:	6 feet
COMBINED N/L & HYS EFFECT:	< \pm 0.0500% of full scale
ZERO BALANCE:	< \pm 2% of full scale
CREEP (30 min):	< \pm 0.0300% of full scale
TEMPERATURE EFFECT:	
OUTPUT:	< \pm 0.0400 % of full scale/ $^{\circ}$ C
ZERO:	< \pm 0.0200 of full scale/ $^{\circ}$ C
TEMPERATURE RANGE:	
COMPENSATED:	-10 to +40 $^{\circ}$ C
OPERATING:	-10 to +65 $^{\circ}$ C
INSULATION RESISTANCE:	> 5,000 Megohms
SIZE (inches):	Length: 3.00, Width: 2.50 Depth: 0.375, 0.50, depending on model (not including optional foldback arm)



(See diagram next page)

	CAPACITY	x	Y	Z	D	D1	F	G	H	I
HSPB-50	50 – 100 kg	0.375	2.500	3.00	1/2-20 or M12	ϕ 0.386	2.937	1.880	1.117	0.316
HSPB-200	200 – 500 kg	0.500	2.500	3.00	1/2-20 or M12	ϕ 0.388	2.937	1.880	1.117	0.316
OPTIONS:										
HSPB-FBA	Foldback arm (fits both models)									

HSPB - LOAD FORCE SENSOR

