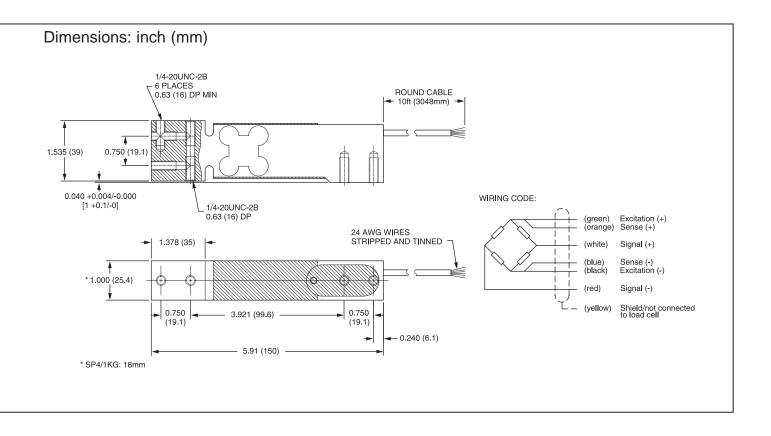
SP4

Single Point Load Cell



Special Features

- Aluminum construction, also available in stainless steel
- Environmentally sealed
- Moment compensated
- 2 mV/V output, 350 ohm bridge





Specifications

Model Type			SP4												
Accuracy class			NTEP CLASS III												
Maximum number of load cell intervals (n _{LC})			5000 SINGLE												
Maximum capacity (E _{max})	kg	1	3	5	7	10	15	20	30	50	75	100	200		
Minimum load cell verification interval (V _{min})	g	-	-	-	1	1.4	2	2.8	4.2	7	10.5	14	-		
Maximum platform size	mm	300X300 450X450 600							K600						
Sensitivity (C _n)	mV/V	2.0 ± 0.2													
Zero balance	1110/0	0 ± 5													
Temperature effect on zero balance (TK ₀)		± 0.0082													
Temperature effect on sensitivity (TK _C) ¹⁾	% of C _n														
Temperature range	/ 10°C														
+20+40°C [+70+105°F]		± .01 (Reference value)													
-10+20°C [+15+70°F]			± .01 (Reference value)												
Hysteresis error (d _{hy}) ¹⁾		± 0.017 (Typical)													
Non-linearity (d _{lin}) ¹⁾	% of C _n	± 0.015 (Typical)													
Creep (d _{Cr}) over 30 min.		± 0.016 0.0049													
Eccentric load error 2)	% of C _n /cm														
Input resistance (R _{LC})	Ω	350 min													
Output resistance (R _O)	22	350 ± 3													
Reference excitation voltage (U _{ref})	V	5													
Maximum excitation voltage (U _{max})	V	15													
Insulation resistance (R _{is})	GΩ	>2													
Nominal temperature range (B _T)		-10 ∓ 40													
Service temperature range (B _{tu})	°C [°F]	-20 ∓ 50													
Storage temperature range (B _{tl})		30 ∓ 70													
Safe load limit (E _L)		150													
Ultimate load limit (E _d)	% of E _{max}	300													
Lateral load limit (E _{Ia})			100												
Deflection at E _{max} (S _{nom}), approx.	mm	<0.4													
Weight, approx.	kg	0.4													
Protection class to EN60529 (IEC529)		IP65													
Material: Measuring element		Aluminum													
Cable Fitting Gland		Silicone Rubber													
Cable Sheath		PVC													
Coating/Plating				Silicone Rubber											

¹⁾ The sum of data for Non-linearity, Hysteresis and Temperature effect on sensitivity meets the requirements of NTEP HB44







Due to continuous improvement, dimensions and specifications are subject to change without notice. All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever. Please request certified drawings before designing mountings or fixtures.

HBM, Inc.

19 Bartlett Street
Marlborough, MA 01752
Tel. 800-578-4260 • 508-624-4500
Fax 508-485-7480
E-mail: info@usa.hbm.com

Internet: www.hbm.com



²⁾ Eccentric load error according to NTEP HB44