

SP4

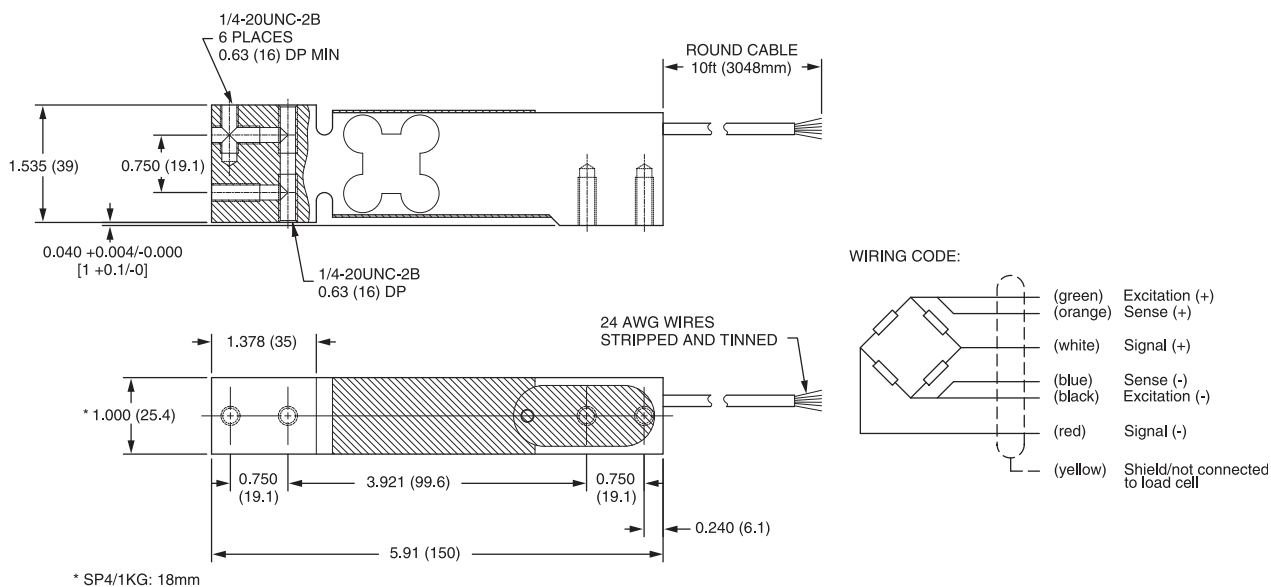
Single Point Load Cell



Special Features

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

Dimensions: inch (mm)



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			600X600				
Sensitivity (C_n)	mV/V	2.0 ± 0.2												
Zero balance		0 ± 5												
Temperature effect on zero balance (TK_0)		± 0.0082												
Temperature effect on sensitivity (TK_C) ¹⁾	% of C_n / 10°C	± .01 (Reference value)												
Temperature range +20...+40°C [+70...+105°F]		± .01 (Reference value)												
Temperature range -10...+20°C [+15...+70°F]		± .01 (Reference value)												
Hysteresis error (d_{hy}) ¹⁾	% of C_n	± 0.017 (Typical)												
Non-linearity (d_{lin}) ¹⁾		± 0.015 (Typical)												
Creep (d_{cr}) over 30 min.		± 0.016												
Eccentric load error ²⁾	% of C_n/cm	0.0049												
Input resistance (R_{LC})	Ω	350 min												
Output resistance (R_O)		350 ± 3												
Reference excitation voltage (U_{ref})	V	5												
Maximum excitation voltage (U_{max})		15												
Insulation resistance (R_{is})	GΩ	>2												
Nominal temperature range (B_T)	°C [°F]	-10 ± 40												
Service temperature range (B_{tu})		-20 ± 50												
Storage temperature range (B_{tl})		30 ± 70												
Safe load limit (E_L)	% of E_{max}	150												
Ultimate load limit (E_d)		300												
Lateral load limit (E_{lq})		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

²⁾ Eccentric load error according to NTEP HB44



Regional Distributor



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