

SP4

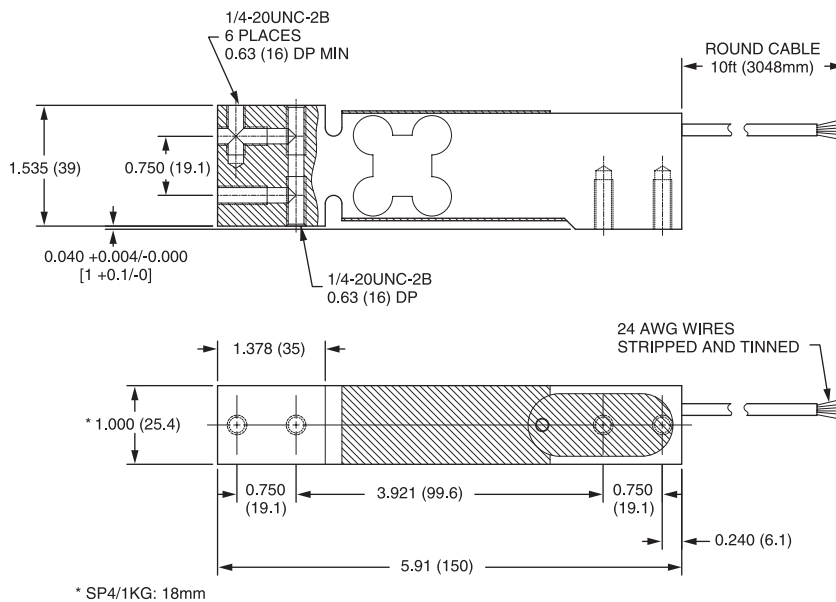
Single Point Load Cell

Special Features

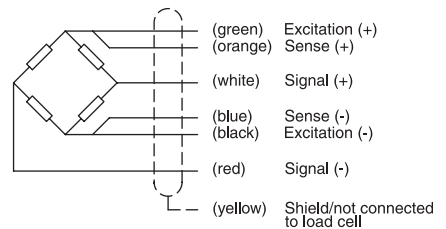
- Aluminum construction, also available in stainless steel
- Environmentally sealed
- Moment compensated
- 2 mV/V output, 350 ohm bridge



Dimensions: inch (mm)



WIRING CODE:



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) ± .01 (Reference value)												
Temperature range +20...+40°C [+70...+105°F] -10...+20°C [+15...+70°F]														
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



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.

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