

Celtron

Low Profile Compression Disk

FEATURES

- Capacities: 5k, 10k, 25k, 50k, 100k lbs
- Electroless nickel-plated alloy tool steel
- Compact size with low profile
- Surge protection optional for 5k-100k lbs
- Optional
 - Stainless steel available
 - FM approval available
 - LCD-TT/M/MH with different loading holes

APPLICATIONS

- Truck/rail scales
- Silo/hopper/tank weighing
- Universal material tester
- Tensile/pulling force measurement

DESCRIPTION

The low profile compression disk is designed as the ultimate solution for some difficult applications with critical height for safety reasons. The shear web design

OUTLINE DIMENSIONS



provides excellent performance even when the side force inevitably exists in normal operations. The typical example for side force resistance is the applications in motor truck scales.

LCD is constructed of alloy steel and fully potted with special chemical compounds to IP67 providing excellent protection against moisture and humidity.

ØT1 Thru, ØT2 C T T T ØD 5k/10k lbs Cable-Length: 49.2/15m			ØT2 C' Bord	ØT1 Thru, ØT2 C' Bore R Spherical Rad D D D D 25k/50k Ibs Cable-Length: 49.2/15m			ØT1 Thru, ØT2 C' Bore I. H2 Dp, R Spherical Rac R Spherical Rac T T T T T T T T T T T T T T T T T T T			re nd. H2 Dp. - - - - - - - - - - - - - - - - - - -	ng xcitation Red xcitation Black gnal Green gnal White
CAPACITY		D	D1	D ₂	Н	H ₁	H ₂	R	T	T ₁	T ₂
5k/10k lbs	mm	104.7	32.0	88.9	34.8	3.05			5/8-18UNF	7.2	10.5 x 7.2DP
	(inch)	4.12	1.26	3.50	1.37	0.12				0.28	0.41 x 0.28DP
25k/50k lbo	mm	120.7	38.9	101.6	53.8	12.7	7.6	22.2		8.7	13.5 x 9.7DP
20K/OUK IDS	(inch)	4.75	1.53	4.00	2.12	0.50	0.30	0.87		0.34	0.53 x 0.38DP
100k lbs	mm	138	50.4	116.8	57.2	6.4	7.6	2.2		10.13	16.5 x 11.0DP
	(inch)	5.43	1.98	4.60	2.25	0.25	0.30	0.87		0.41	0.65 x 0.43DP

Model LCD

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SPECIFICATIONS							
PARAMETER	VALUE	UNIT					
NTEP/OIML accuracy class	Non-Approved						
Maximum no. of intervals (n)	2000						
Y = E _{max} /V _{min}	5000	Maximum available					
Standard capacities (Emax)	5k, 10k, 25k, 50k, 100k	lbs					
Rated output-R.O.	4.0	mV/V					
Rated output tolerance	0.25	±% of rated output					
Zero balance	1	±% of rated output					
Non-linearity	0.050	±% of rated output					
Hysteresis	0.050	±% of rated output					
Non-repeatability	0.020	±% of rated output					
Creep error (20 minutes)	0.030	±% of rated output					
Zero return (20 minutes)	0.030	±% of rated output					
Temperature effect on min. dead load output	0.0026	±% of rated output/°C					
Temperature effect on sensitivity	0.0015	±% of applied load/°C					
Compensated temperature range	-10 to +40	°C					
Operating temperature range	-20 to +60	°C					
Safe sideload	150	% of R.C.					
Ultimate overload	300	% of R.C.					
Excitation, recommended	10	VDC or VAC RMS					
Excitation, maximum	15	VDC or VAC RMS					
Input impedance	385±5*	Ω					
Output impedance	350±3**	Ω					
Insulation resistance	>5000	ΜΩ					
Construction	Nickel-plated alloy steel						
Environmental protection	IP67						

* 770±10 Ohms for 100k lbs

** 700±5 Ohms for 100k lbs

All specifications subject to change without notice.

FM Approval

Intrinsically Safe: Class I, II, III; Div. 1 Groups A-G Non-Incendive: Class I; Div. 2 Groups A-D



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