

Low Profile Compression Disk



FEATURES

- Capacities: 5k, 10k
- Electroless nickel-plated alloy tool steel
- Compact size with low profile
- Compact size with low profile

OPTIONAL FEATURE

- Stainless steel available
- FM approval available
- LCD-TT/M/MH with different loading holes

DESCRIPTION

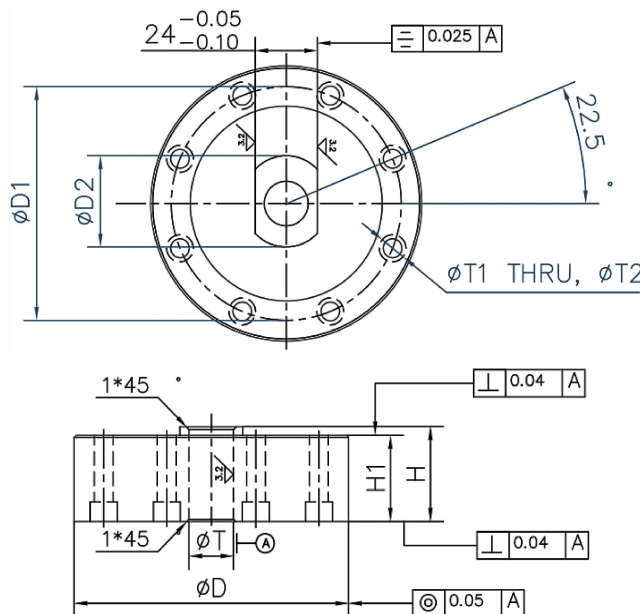
The low profile compression disk is designed as the ultimate solution for some difficult applications with critical height for safety reasons. The shear web design provides excellent performance even when the side force inevitably exists in normal operations. The typical example for side force resistance 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.

APPLICATIONS

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

OUTLINE DIMENSIONS in mm



Wiring Diagram

- +Excitation (Red)
- Excitation (Black)
- +Signal (Green)
- Signal (White)

CAPACITY		D	D ₁	D ₂	H	H ₁	T	T ₁	T ₂
5KXS	mm	104.6	88.9	32	34.8	31.75	17.0±0.1	7.2	10.5 x 7.2DP
10KXS	(inch)	4.12	3.5	1.26	1.37	1.25	0.6	0.28	0.41 x 0.28DP

All dimensions in mm

**SPECIFICATIONS**

PARAMETER	VALUE		UNIT
	5K	10K	
Rated capacity-R.C. (E_{max})	5K	10K	
Rated output-R.O.	4.0mV/V \pm 0.25%		mV/V
Zero balance	\pm 1%		\pm % of rated output
Non-linearity	0.05%		\pm % of rated output
Hysteresis	0.05%		\pm % of rated output
Non-repeatability	0.02%		\pm % of rated output
Creep error (20 minutes)	0.03%		\pm % of rated output
Zero return (20 minutes)	0.03%		\pm % of rated output
Temperature effect on min. dead load output	0.0026		\pm % of rated output/ $^{\circ}$ C
Temperature effect on sensitivity	0.0015		\pm % of rated output/ $^{\circ}$ C
Compensated temperature range	-10 $^{\circ}$ Cto +40 $^{\circ}$ C		$^{\circ}$ C
Operating temperature range	-20 $^{\circ}$ Cto +60 $^{\circ}$ C		$^{\circ}$ C
Safe sideload	150%		% of R.C.
Ultimate overload	300%		% of R.C.
Excitation, recommended	10VAC/DC		Vdc or Vac rms
Excitation, maximum	15VAC/DC		Vdc or Vac rms
Input impedance	385 \pm 5*1		Ohms
Output impedance	350 \pm 3** 2		Ohms
Insulation resistance	>5000M		Mega-Ohms
Construction	< 0.5		mm

Approval

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

Non-Incendive: Class I; Div. 2 Groups A-D



Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay Precision Group"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify Vishay Precision Group's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

Vishay Precision Group makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, Vishay Precision Group disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on Vishay Precision Group's knowledge of typical requirements that are often placed on Vishay Precision Group products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of Vishay Precision Group.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay Precision Group products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay Precision Group for any damages arising or resulting from such use or sale. Please contact authorized Vishay Precision Group personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.