LS | Disk Load Cell

Description

LS is a disk type load cell of steel material. It is a sealed / tensioned / compression type load cell suitable for harsh industrial environments such as hoppers, tanks and silo scales.

Features

- Tensile / Compression Type
- Hermetically sealed structure
- Designed according to IP67

Option

- Tensile Accessories (Rod End Bearing Type)
- Compression type accessories (Load button, ball type)
- LS-EXP / intrinsically safe explosion proof (Ex ia II C T4)
- LS-EXP-D / Explosion proof (Ex d IIC T4)
- LS-EXP-TD / dust explosion proof (Ex tD A21 T135 ℃ IP68)
- LS-NR (CE certified)

Application

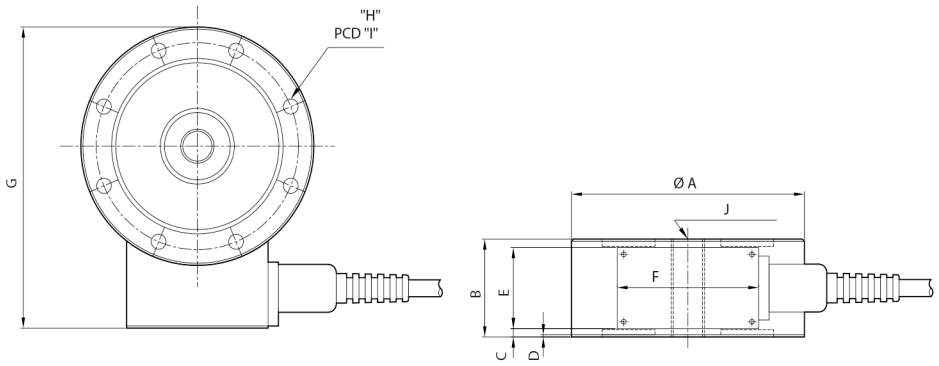
- Hopper, tank, silo scale
- Tensile / Compression Tester

Specifications

Capacity(R.L.)		tf	1, 2, 3, 5, 10, 20, 30, 50, 100, 200, 300	
Rated Output Zero Balance		mV / V mV / V	2.0 ± 0.005/3.0 ± 0.0075(for 200, 300 tf) 0.0 ± 0.020	
Accuracy Class		-	A	B
Non-Linearity Hysteresis Combined Error Repeatability Creep for 30min. Return for 30min. Resolution Division		% R.O. % R.O. % R.O. % R.O. % R.O. % R.O. - mV / V	≤0.02 ≤0.02 ≤0.02 ≤0.01 ≤0.03 ≤0.03 ≤1/5000 0.0004	≤0.05 ≤0.05 ≤0.05 ≤0.02 ≤0.03 ≤0.03 ≤1/2000 0.001
Temperature Effect on	-Zero Value -Output Value	%/10℃ %/10℃	≤0.03 ≤0.03	≤0.03 ≤0.03
Excitation	-Recommended -Maximum	V V	10 15	
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000	
Compensated Temperature Range Operating Temperature Range		℃ ℃	-10 to +40 -30 to +80	
Material & Plate		-	Steel / Coating	
Cable Specification		-	Ø8 x 4P x 5m (10m) (PVC) Explosion-proof (Urethane)	
Safety Overload		% R.L.	150	

Dimensions

▶ LS



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
1~3tf	112	46	4	1	38	68	141.5	8-ø7.1	97.2	M16X2	5
5tf	120	46	4				150.4	8-ø9	103.2	M18X1.5	
10tf	138	60	11				170	8-ø11	117.6	M24X2	
20~30tf	184	80	21				218.5	8-ø14	157.6	M39X2	10
50tf	200	60	7.8				235	12-ø14.5	170	M45X3	
100tf	278	90	20				314.8	16-ø16.3	229	M70X3	
200tf	355	108	35				392.7	12-ø26	298	M90X3	
300tf	355	108	35				392.7	12-ø28	300.5	M100X3	