FS Pancake Load Cell

A load cell operating in compression and tension made of alloyed steel in various capacities.

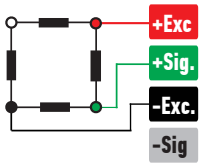
ABOUT PRODUCT

FS Compression-Tension Load Cell is a high-precision load cell that operates in both compression and tension directions, made of alloy steel with various capacities ranging from 1 ton to 60 tons. After being heat-treated and cleaned by sandblasting, the alloy steel is completely homogenized and coated with nickel to increase its resistance to corrosion, providing a smooth operation in the toughest conditions.

FS Mine Type Load Cell uses 8 to 16 strain gauges in contrast to the usual 4 strain gauges in normal load cells. This difference provides more accurate output for the load cell and allows for more precise and high-accuracy operation in testing and force machines.

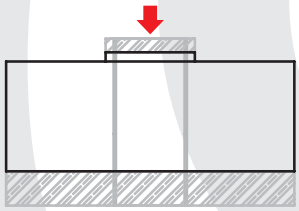
All load cell models produced by WEILO are tested in accordance with OIML R60 procedures. FS Tension Load Cell is used in various industrial areas, such as tensile testing, tank and silo weighing, and other applications where high accuracy and precision are required. The mounting kit and connection accessories designed for FS and other load cells offer a safer and easier to use option for accurate and precise measurements. The minimalist structure of mine type load cells allows for ease of use in tight spaces.FS Load Cell is highly resistant to tough conditions with its high-quality welding technologies and completely protected electronic circuitry, providing flawless operation under IP 67 / IP 68 protection. Standard 4x022mm flame-retardant and noise-resistant cables are used for FS Load Cell, while armored or Ex-Proof silicone cables can be produced as an option. Armored cables are more resistant to external factors and provide complete protection against rodent animals, while silicone cables can withstand temperatures up to 178°C continuously and up to 200°C for a short period and offer trouble-free use even at -55°C.It can also be produced entirely from stainless steel as an additional option.

CONNECTION DIAGRAM



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

WORK STYLE



FEATURES

- IP 67 / IP 68 protection class
- Plated nickel, alloyed steel
- Ease of installation

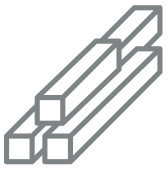
FS Pancake Load Cell

APPLICATION AREAS


Agriculture and Livestock

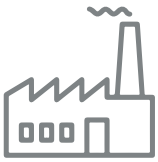

Chemistry and Petrochemistry


Concrete Batching Plants And Construction

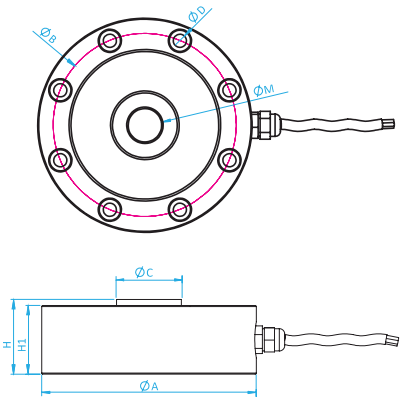

Iron Steel Metal


Food


Textile


Machinery and Industry

TECHNICAL DRAWING



CAPACITY	A	B	C	D	H	ØH	M
2, 3, 5 TONES	106	90.5	32	6,5	37	34	M18x1,5
10, 20 TONES	126	104	39	8,5	52	48	M32x1,5
30 TONES	145	117	50	11	58	54	M39x2
60 TONES	196	161	76	13	65	60	M56x2
100 TONES	196	161	76	13	85	78	M56x3

TECHNICAL SPECIFICATION

Capacity	2, 3, 5, 10, 20, 30, 60, 100 Tones
Accury Class	C1
Minimum Load	0 kg
Maximum Intervals (nLC)	1000
Minimum Verification Interval	5000
Total Error	±0.05 %FS
Output Sensitivity (FS)	2.00 ± 0.005mV/V
Zero Balance	± 1 %FS
Input Resistance	750 Ω ± 30 Ω
Output Resistance	702 Ω ± 5 Ω
Isolation Resistance	≤ 5000 MΩ (100VDC)
Compansated Temperature	-10 ~ + 40 °C
Operating Temperature	-30 ~ + 70 °C
Excitation, Recommended Voltage	10 VDC
Maximum Excitation Voltage (Umax)	15 VDC
Safe Overload	150 % FS
Ultimate Overload	300 % FS
Ingress Protection (EN60529)	IP 67 / IP 68
Element Material	Alloyed Steel / Stainless Steel
Cable	4x022mm^2