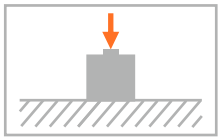
Type CAD

10t-20t-30t

Digital Compression Type Load Cell

Stainless Steel



Features

Certified to OIML R60 standards
Welded hermetic sealed body
%100 resistant to side forces
%300 resistant to over load
IP68 industrial protection
Lightning Protection
Installation angle compensation
RS485 communication
Automatic corner calibration
Measurement error detection
24 bit A/D converter

· Model CAD has double sockets, cable connection is done by jumping from one load cell to another one. It does not require junction box so it is very easy to change in case of fault.

· Model CAD load cell, is based on the shear force principle to measure forces in the compression direction. It has been developed for use in high capacity, electronic weight and force measurement applications in industrial environments. Thanks to its' perfect and rugged body, it offers high resistance to side forces and overload conditions.

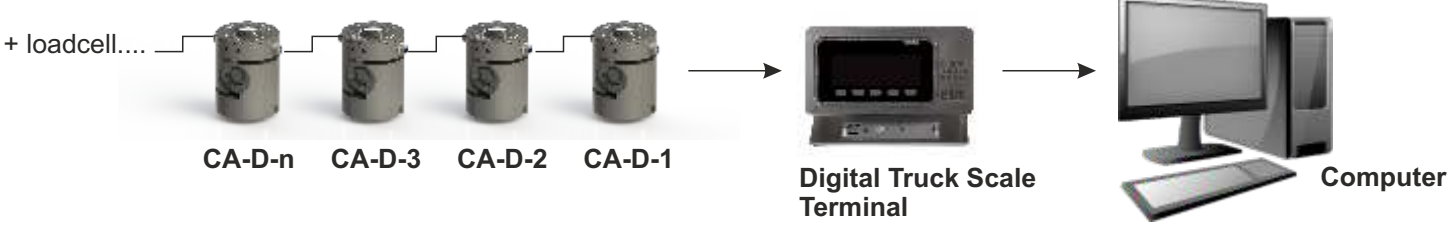
· Stainless steel body is resistant to corrosion. CAD load cell is suitable for heavy industrial conditions and chemical environments. It finds application in high capacity vehicle scales, platform scales, tank weighing systems and process weighing applications.

· When compared to other brand digital load cells, the most important advantage of CAD load cell is that it bears an electronic anglemeter inside. With this feature, the technician is alerted by colored LEDs for proper assembly during installation.

· Main problem in truck scales is side forces. Platform elongation due to thermal expansion of temperature differences between summer and winter change and platform deformation due to load distribution causes errors in measurement. In both cases, the load cells which are placed perpendicular to the ground becomes athwart and may cause measurement error. With thanks to the patented angle compensation Technology of Esit, vertical deflection angle of the load cell is detected via sensors to ensure an accurate weight measurement.

· CAD load cell is 80% more resistant to side forces than other load cells working with column type principle. Particularly, the major reason behind load cell malfunctioning is the lateral side forces created by the vehicle movements during brakes and sudden start-ups.

Type CAD Connection Type



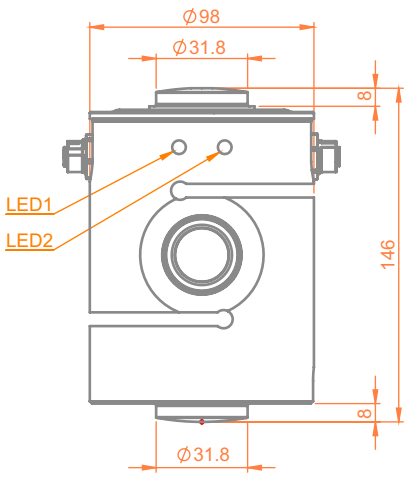
Type CAD

Technical Specifications

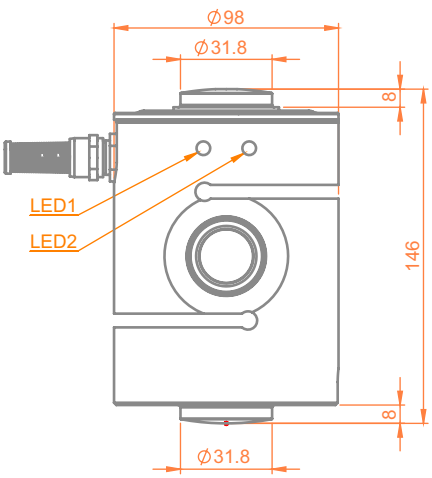
Maximum capacities (E_{max})	t	10, 20, 30			
Accuracy class (OIML R 60)		C3	C4	C5	C6
Maximum number of verification intervals (n_{LC})		3000	4000	5000	6000
Minimum verification interval (V_{min})		E_{max}/10000	E_{max}/20000	E_{max}/20000	E_{max}/40000
Combined error	%	≤ ±0.02	≤ ±0.012	≤ ±0.012	≤ ±0.01
Creep error over 30 min. (DR)	$\%E_{max}$	≤ ±0.0025	≤ ±0.025	≤ ±0.025	≤ ±0.025
Maximum safe overload	$\%E_{max}$	150			
Maximum safe sideload	$\%E_{max}$	100			
Ultimate load	$\%E_{max}$	300			
Stretching (E_{max})	mm	≤0.3			
Excitation voltage (U_{max})	V	12-24			
Excitation Current	mA	100			
Output signal (at nominal load)	Count	200 000			
Analog/Digital converter (sigma delta)	bit	24			
Analog/Dijital converter speed	Hz	1 or 200			
Asynchronous communication speed	Baud	115.200			
Data interface	Semi Doublex	RS 485			
Angle measurement error	Degree	0.1			
Inclination angle error display		2 pieces 3 colored Led			
Insulation voltage	V	2500			
Compensated temperature range	°C	-10...+40			
Operating temperature range	°C	-40...+70			
Load cell material		Stainless Steel			
Sealing (EN60529)		IP68			
Weight	kg	8			

Dimensions

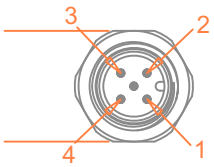
(All dimensions are expressed in millimeters)



Type CAD-C
socket connection



Type CAD
cable connection



Cable connection
1. 12-24 Vdc+
2. 12-24Vdc-
3. RS485A
4. RS485B