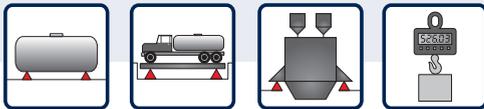


Tension and Compression load cell V60S



- ▶ Material: alloy steel, nickle-plated
- ▶ Capacity: 2.000 - 20.000 kg
- ▶ Protection class IP 67
- ▶ Design: The measuring element is hermetically sealed due to laser welding and has a calibrated output current
- ▶ Robust design for harsh industrial environment
- ▶ High accuracy and linearity
- ▶ Load application: Central force via an internal thread in the middle of the load cell
- ▶ Compatible with other sources

Typical Application

- ▶ Weighbridge and lorry weighing scales, car weighing scales
- ▶ Tank and silo weighing scales, axle weighing scales
- ▶ Measurement of press-in and insertion forces
- ▶ Spring forces, cutting forces
- ▶ Force measurement and control during assembly
- ▶ Measurement of pressure on drilling machines



Tension and Compression load cell V60S

Tension and compression force sensors for industrial applications

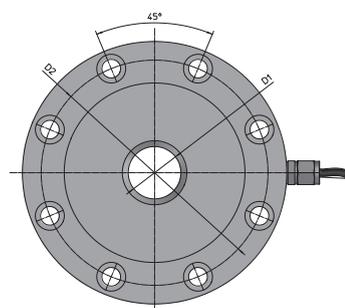
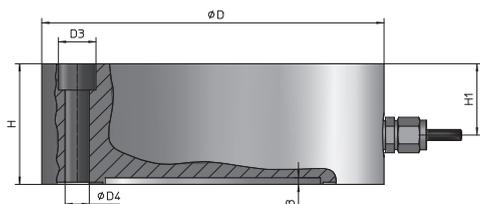
The Tension and Compression Load Cell V60S is a low profile, high performance ring torsion type load cell and one of the newer products of weighing technology. The load cell has a symmetrical structure and very compact. The force is applied through a load application button or an application specific adapter part on a consistent internal thread in the center of the load cell. Through this center of force, the load cell is largely

insensitive to eccentric loading. It is characterized with high accuracy and linearity. The load cell also provides for long-term use in harsh industrial environments accurate and reproducible results. The V60S load cells are laser-welded and meets the requirements of protection class IP67. The hermetically sealed enclosure allows operation even under harsh operating conditions.

► TECHNISCHE DETAILS

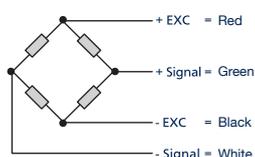
Accuracy class		0,03
Maximum capacity (E_{max})	t	3, 5, 10, 20
Maximum number of intervals (n_{LC})		3000
Output sensitivity (C_n) / Sensivity tolerance	mV/V	$2,0 \pm 0,006$
Ratio of min LC verification interval ($Y = E_{max} / v_{min}$)	% von Emax	10 000
Minimum dead load (E_{min})		0
Limit load (E_L)	% von Emax	150
Breaking load (E_B)		200
Recommended supply voltage (U_{ref})	V	5 - 12
Excitation, maximum (B_U)		15
Zero balance	% v. C_n	1 %
Input resistance (R_{LC}) at reference temperature	Ω	400 ± 20
Output resistance (R_O) at reference temperature		352 ± 3
Insulation resistance	M Ω	> 5 000
Nominal temperature range (B_T)	$^{\circ}C$	- 10 ... + 40
Protection class (DIN 40.050 / EN 60529)		IP67
Cable length		12 m, ϕ 6 mm
Material		legierter Stahl, vernickelt

► TECHNICAL DRAWING



Electrical connection

4-wire-cable



Load	D	D1	D2	D3	D4	H	H1
2 t	105	M14x2	90	11	7	45	22,5
5 t	120	M20x1,5	104,5	13,5	9	50	25
10 - 20 t	155	M32x2	133	17	11	55	27,5

All dimensions are given in millimetres (mm)

Technical specifications are subject to change without prior notice