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Pressure force Load cell *C36S*

Features

- Material: Alloy steel
- Nominal load: 20 - 100 t
- Protection class: IP66 - laser welded
- Construction: The measuring element is laser-welded
- Load introduction: Spherical load introduction knob / support with centring
- Particularly robust for tough continuous use in industrial applications
- Verifiable according to OIML R60 up to 3000 D, test certificate number: DK0199-R60-12.12

Scope of application:

- Hopper scales
- Silo scales
- Hopper scales
- Force measurement of compressive force in industry

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Pressure force Load cell *C36S*

Compression load cell with four-column technology

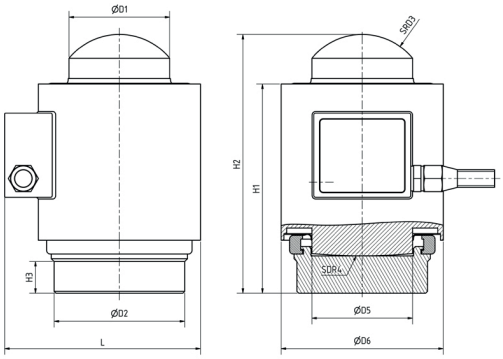
The C36S load cells belong to the multiple column compression load cells and are particularly suitable for use as hopper scales or bunker scales. The measuring elements are four square columns on which strain gauges are applied. This special four-column technology makes the load cell largely insensitive to eccentric load. The load acting centrally in the measuring direction elastically deforms the spring bodies and thus the force-fitted strain gauges.

This generates a measuring stress proportional to the load. Due to the coordinated radius geometries, the load cell has a precisely defined self-erecting function. The C36S load cell delivers extremely precise and reproducible measurement results even in long-term use in harsh industrial environments.

TECHNICAL DETAILS

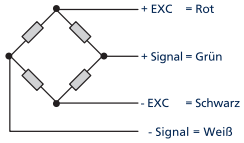
Accuracy class according to OIML R 60		C3
Nominal load (E_{max})		20.000, 30.000, 40.000, 50.000, 100.000
Number of division values (n_{LC})		3000
Nominal value (C_n) / Characteristic tolerance	mV/V	1,0 / ± 0,002 mV/V
Minimum preload (E_{min})		0
Limit load (E_L) **Breaking load (E_d)**	% from Emax	150 250
Recommended supply voltage (U_{ref}) **Maximum permissible supply voltage (B_U)**	V	5 - 12 15
Zero adjustment	% v. C_n	≤ ± 1
Input resistance (R_{LC}) at reference temperature **Output resistance (R_O) at reference temperature**	Ω	650 ± 10 610 ± 3
Insulation resistance	MΩ	> 5 000
Nominal temperature range (B_T)	°C	- 10 ... + 40
Protection class according to (DIN 40.050 / EN 60529)		IP 66
Cable length		14 m
Material		Alloy steel

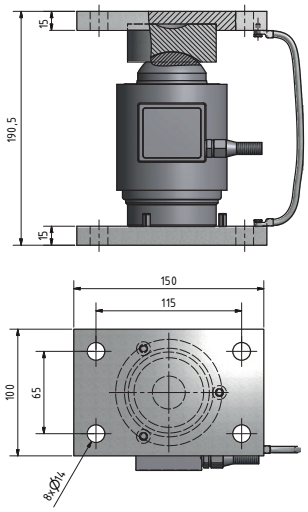
TECHNICAL DRAWINGS



Load (t)	D1	D2	D3	D4	D5	D6	H1	H2	H3	L
20,25,30,50,60	54	70	35	220	54	87	112	138,5	17	105
75,100	76	105	50	300	76	120	167	200	37	137

Elektrischer Anschluss
4 -Leiter - Kabel





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