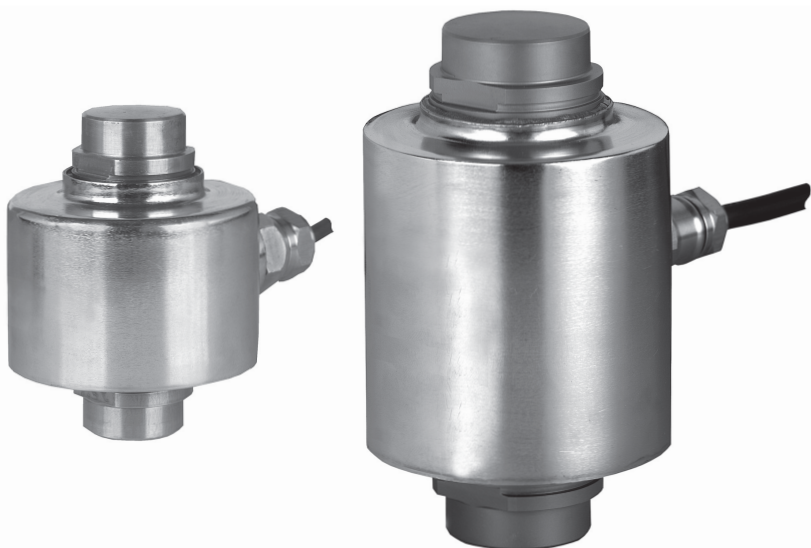


LOAD CELLS

CL3 LOAD CELLS 7.5 t ... 50 t



- Wide range of capacities from 7.5 t to 50 t
- Stainless steel construction
- Environmental Protection IP68 / IP69K with complete hermetic sealing
- OIML approval

The type CL3 is a stainless steel self centering rocker column load cell with complete hermetic sealing. It is a perfect fit for use in harsh industrial environments.

Typical applications include weighbridges, hoppers, tanks and silos. The load cell features a self-restoring design and high input resistance. A compatible range of application hardware and electronics is also available.



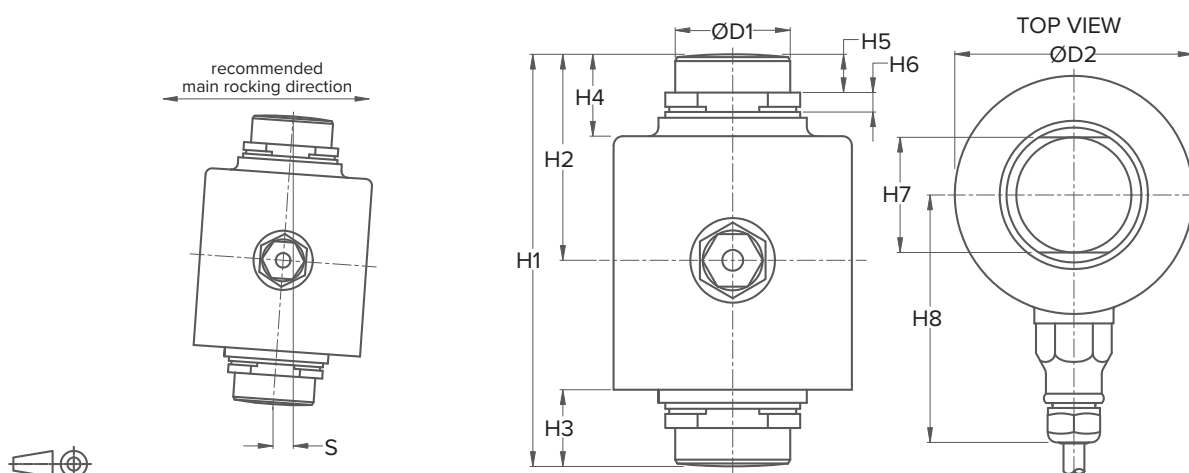


TECHNICAL SPECIFICATIONS

Characterization of load cell capabilities	Analog-passive load cell		
Available models	CL3 / CL3-TS		
Accuracy class according to OIML R60	C3	C3	C4
Available maximum capacities (E_{max})	7.5 t / 15 t / 22.5 t	30 t / 40 t / 50 t	30 t / 40 t / 50 t
Maximum number of verification intervals (n_{LC})	3500	3000	4000
Minimum load cell verification interval (v_{min})	$E_{max} / 10000$	$E_{max} / 15000$	$E_{max} / 15000$
Minimum dead load (E_{min})	0%* E_{max}		
Rated Output (RO)	$2 \pm 0.1\%$ mV/V		
Input resistance (R_{LC})	$1150 \Omega \pm 50 \Omega$		
Output resistance (R_{out})	$1000 \Omega \pm 2 \Omega$		
Compensated temperature range	$-10^\circ\text{C} / +40^\circ\text{C}$		
Fraction (pLC)	0.7		
Humidity class	CH		
Safe overload	200 % of E_{max}		
Recommended excitation	10 V AC / DC		
Excitation maximum	15 V AC / DC		
Transducer material	Stainless steel		
Atmospheric protection	Hermetically sealed, IP68 / IP69K		
Packed weight	1.3 kg (7.5 t) / 1.4 kg (15 t) / 1.5 kg (22.5 t) / 3.4 kg (30 t) / 3.6 kg (40 t) / 4.5 kg (50 t)		



DIMENSIONS (IN MM)



Type	H1	H2	H3	H4	H5	H6	H7	H8	D1	D2	S _{max} *	RF**
7.5 t	89	44	17	23	11	6	28	75	28	69	4.5	11 kN
15 t	89	44	17	23	11	6	28	75	28	69	4.5	20 kN
22.5 t	89	44	17	23	11	6	28	75	28	69	4.5	30 kN
30 t	140	70	26	28	13	6.5	39	84	39	81	10.5	34 kN
40 t	150	75	31	33	13	11.7	39	84	39	81	10	37 kN
50 t	178	89	32	34	17	8.5	44	94	44	99	9	51 kN

* S_{max} = maximum lateral displacement of load introduction. Recommended gap 2...3 mm for 7.5...22.5 t, 3...5 mm for 30...50 t.

** RF = restoring force at S_{max} and E_{max}.

WIRING

The load cell is provided with a shielded, 4 conductor cable (AWG 24 for 7.5 to 22.5 t / AWG 20 for 30 to 50 t). Cable jacket polyurethane.

Cable length:

12 m – 7.5 t...22.5 t

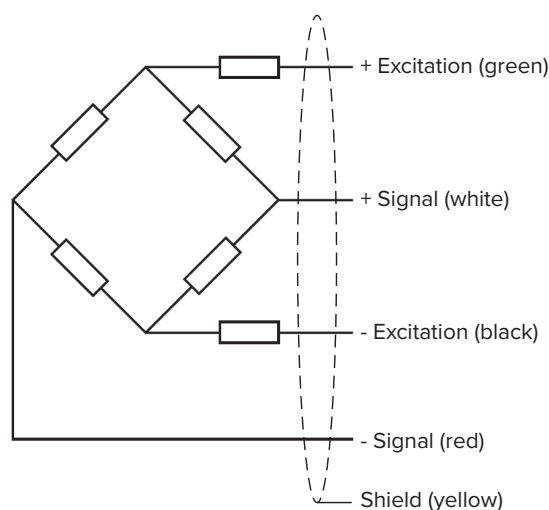
18 m – 30 t...50 t

Cable diameter:

5 mm – 7.5 t...22.5 t

5 mm – 30 t...40 t (CL3-TS)

7.8 mm – 30 t...50 t



The shield is floating (On request the shield can be connected to the load cell body).