

Tension Load Cell

LHT

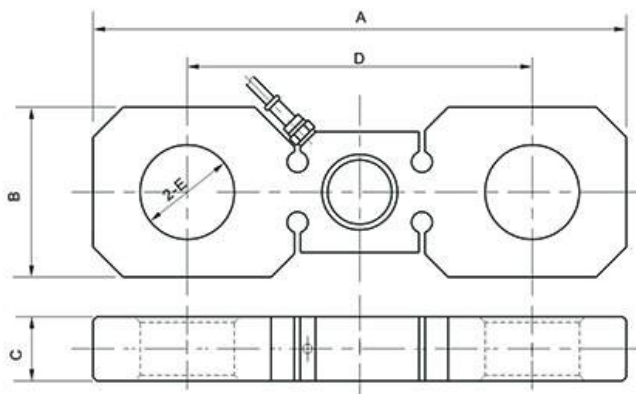
Capacities: 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30, 50, 100 t.



Characteristics:

- Robust Steel Structure
Suitable for Crane Applications
- Easy Installation
- Wide Range of Capacities
- Load Cell made of Alloy Steel
- Sensitivity 1.5 mV/V
- Accuracy Class 0.02%
- Environmental Protection IP 67

Dimensions:



Capacity [t]	Dimensions [mm]				
	A	B	C	D	E
1 / 2 / 3	200	60	22	134	32
4	218	68	26	138	36
5 / 6	227	70	28	147	40
8 / 10	283	90	34	183	50
15	323	110	38	205	65
20	318	110	42	200	60
25 / 30	350	126	50	216	60
50	500	180	60	320	72
100	570	170	90	370	100

Dimensions in mm.

Cable Diameter max. 5 mm, Cable Length 5 m , 4-wire.



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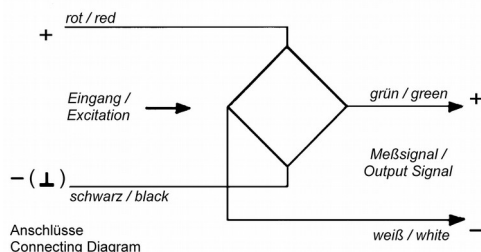
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Technical Specifications:

Capacity	($E_{\max}$)	[t]	1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30, 50, 100.
Accuracy Class			0.02%
Maximum Number of Load Cell Intervals	(n_{LC})		3000
Minimum Load Cell Verification Interval	($V_{\min}$)	[% of $E_{\max}$]	0.01
Sensitivity	(C_n)	[mV/V]	1.50 ± 0.02
Non-Linearity	(d_{lin})		≤ 0.02
Zero Balance		[% of C_n]	≤ 1
Temperature Effect on Zero Balance	(TC_0)	[%C/10K]	≤ 0.02
Temperature Effect on Sensitivity	(TC_C)	[%C/10K]	≤ 0.02
Minimum Dead Load		[% of $E_{\max}$]	0
Safe Load Limit	(E_{lim})	[% of $E_{\max}$]	150
Breaking Load	(E_d)	[% of $E_{\max}$]	300
Deflection at $E_{\max}$		[mm]	≤ 0.90
Creep (over 30 Minutes)		[% of C_n]	≤ 0.02
Zero Return after 30 Minutes		[% of C_n]	≤ 0.02
Excitation		[V]	10 ... 12
Input Resistance	(R_{LC})	[Ω]	385 ± 10
Output Resistance	(R_{OUT})	[Ω]	350 ± 3
Insulation Resistance		[M Ω]	> 5000 (at 50V DC)
Nominal Temperature Range		[°C]	-10 ... +40
Service Temperature Range		[°C]	-20 ... +60
Storage Temperature Range		[°C]	-40 ... +75
Material of Load Cell			Alloy Steel
Material of Other Parts			-
Protection Class to EN 60 529			IP67

Cable/Connections:

- 4-wire cable, 5 m long,
- Screened cable, screen not connected to load cell body;
- Cable diameter approx. 5 mm;
- End of wires stripped and tinned.



Excitation +	red
Excitation -	black
Signal +	green
Signal -	white

Optional Accessories:



Load Cell Junction Box, Model AK,
Stainless Steel Housing IP65



Load Cell Connection Cable,
4-wire or 6-wire, screened

More Weighing Technology (e. g. load cells, weight indicators, weighing amplifiers) on www.gbuettner.de.