

ACDBH

Double Ended Shear Beam Load Cell

- ▣ Measurement ranges 0 ... 5 t to 0 ... 15 t
- ▣ Tension or compression
- ▣ Non-linearity 0.03 % RO
- ▣ Output rationalised 3 mV/V ± 0.25 %
- ▣ Supply voltage 10 VDC, max. 15 VDC



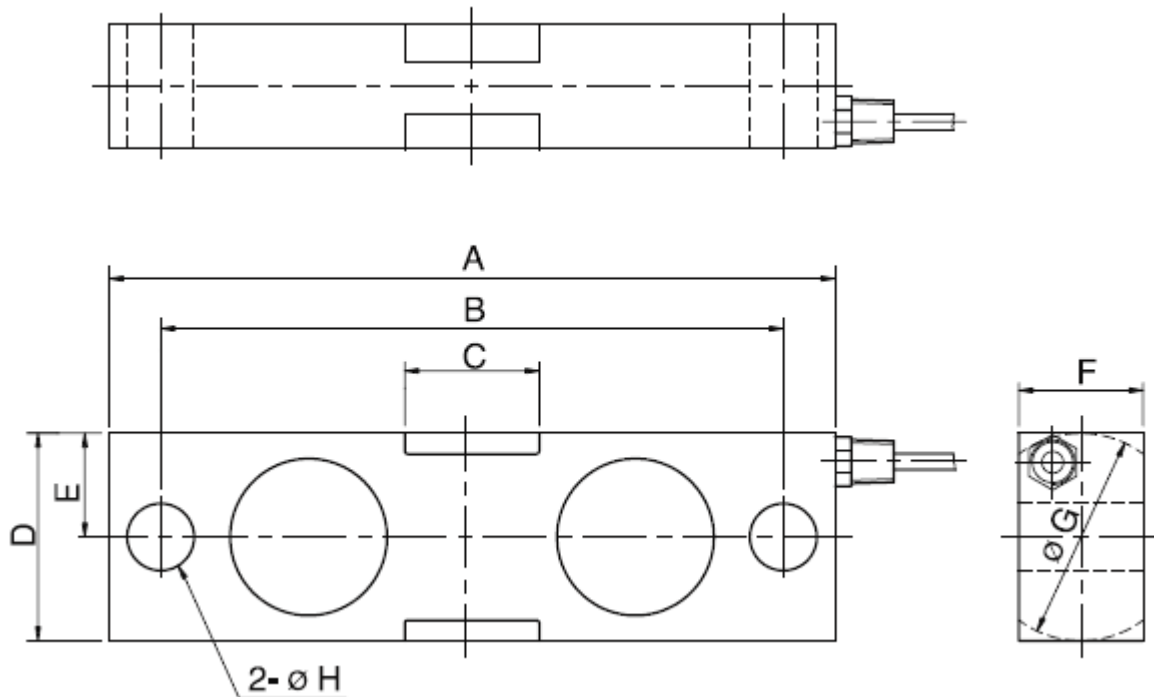
The ACDBH series double ended shear beam load cell is designed for high accuracy hopper, tank scales and a variety of process weighing applications.

- Alloy tool steel construction for high accuracy
- Electroless nickel plated for corrosion resistance
- Fully sealed to IP67

▣ Specifications

Rated capacity (RC):	5 t, 10 t, 15 t
Non-linearity:	≤ 0.03 % RO
Hysteresis:	≤ 0.03 % RO
Creep, 20 min:	≤ 0.03 %
Non-repeatability:	≤ 0.03 % RO
Rated output (RO):	3 mV/V ± 0.25 %
Zero balance:	≤ 1 % RO
Temperature effect on rated output:	≤ 0.02 % load/10 K
Temperature effect on zero balance:	≤ 0.03 % RO/10 K
Compensated temperature range:	-10 ... +70 °C
Operating temperature range:	-20 ... +80 °C
Supply voltage, recommended:	10 VDC
Supply voltage max.:	15 VDC
Terminal input resistance:	700 Ω ± 10 Ω
Terminal output resistance:	700 Ω ± 7 Ω
Insulation resistance, min.:	2000 M Ω at 50 VDC
Safe overload:	150 % RC
Ultimate overload:	300 % RC
Environmental sealing:	meets IP67
Electrical connection:	$\varnothing 7$ mm x 6 m (22AWG x 4-core, shielded), optional 10 m

■ Dimensions

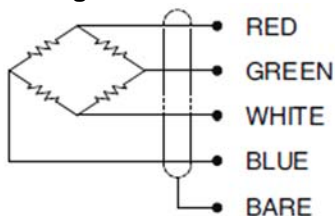


Dimensions in „mm“, approx. values

These drawings are for information only and not intended for construction purpose.
Please contact us for detailed drawings.

Rated Capacity	A	B	C	D	E	F	G	H
5 t, 10 t (49.0 kN, 98.1 kN)	222	190.5	41.2	49.3	24.7	36.6	50.6	20.5
15 t (147 kN)	222	190.5	41.2	63.5	31.8	38	63.5	20.5

■ Wiring



Wiring

red	+ supply voltage
green	+ output signal
white	- supply voltage
blue	- output signal
bare	screen

■ Ordering Information

ACDBH-xxT	Capacity xx
	5 = 5 t
	10 = 10 t
	15 = 15 t

Safety note:

When using the load cell in tension mode it is essential to provide additional safety precautions like safety chains etc. for catching the load in a breakage, which cannot be excluded completely.

Due to continual product development, ALTHEN and partners reserve the right to vary the foregoing details without prior notice.