

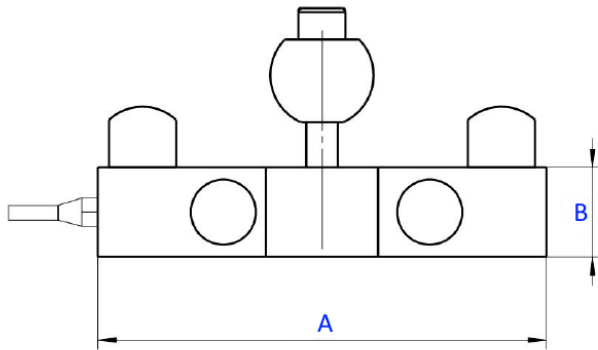


## DATASHEET : RC-xT Rope Clamp Load Cells (Black)

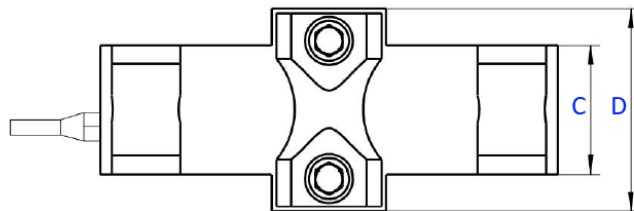


The RC-xT range of rope clamp load cells are for measuring tension in wire ropes. These load cells have a double ended beam design and are available in 3T, 5T and 10T nominal capacities.

### DIMENSIONS:



	A	B	C	D	Wt
<b>RC3</b>	160	28	40	60	1.8
<b>RC5</b>	200	40	55	80	3.8
<b>RC10</b>	200	40	56	88	4.1



All dimensions in mm  
and Wt (weight) is in kg.



## TECHNICAL PARAMETERS:

<b>Rated Load:</b>	3T (RC-3T); 5T (RC-5T); 10T (RC-10T)
<b>Rope size:</b>	8-30mm
<b>Sensitivity:</b>	2.0±0.1% mV/V
<b>Combined Error:</b>	±0.05% F.S.
<b>Creep Error (30min):</b>	±0.02% F.S.
<b>Zero Balance</b>	±1 % F.S.
<b>Tco:</b>	±0.02% F.S./10°C
<b>Tc Span</b>	±0.02% F.S./10°C
<b>Input Resistance:</b>	750 ± 5 Ohm
<b>Output Resistance:</b>	702 ± 3 Ohm
<b>Insulation Resistance:</b>	≥ 5000 Ohm
<b>Operating Temperature Range:</b>	-30 - 70°C
<b>Maximum Safe Overload:</b>	150% F.S.
<b>Ultimate Safe Overload:</b>	300% F.S.
<b>Recommended Excitation:</b>	10-12 VDC
<b>Maximum Excitation:</b>	15 VDC
<b>Sealing Class:</b>	IP67
<b>Element Material:</b>	Alloy Steel
<b>Country of Manufacture:</b>	China

## WIRING:

Red:	+excitation
Black:	-excitation
Green:	+output
White:	-output



## INSTALLATION:

As these load cells are calibrated in situ, they do not need to be torqued up to a specific value. Instead, tighten up the clamp bolts until the back of the rope just touches the body of the load cell. If you have been supplied a spacer with your rope clamp, then tighten the bolts until the spacer fits snugly. Do not crush the rope.

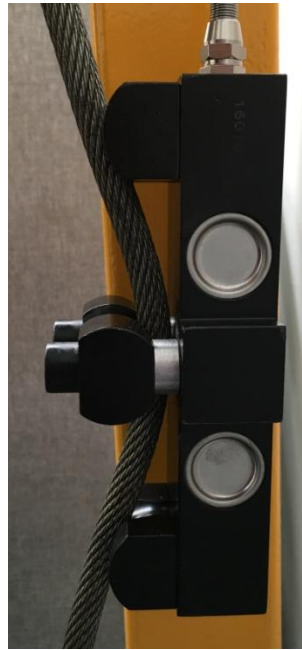


Figure 1: RCxT installed on a rope