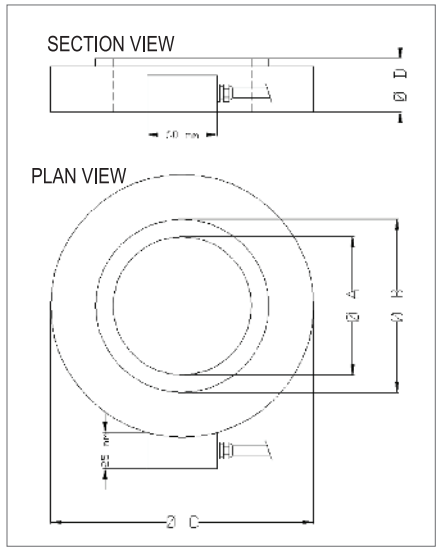
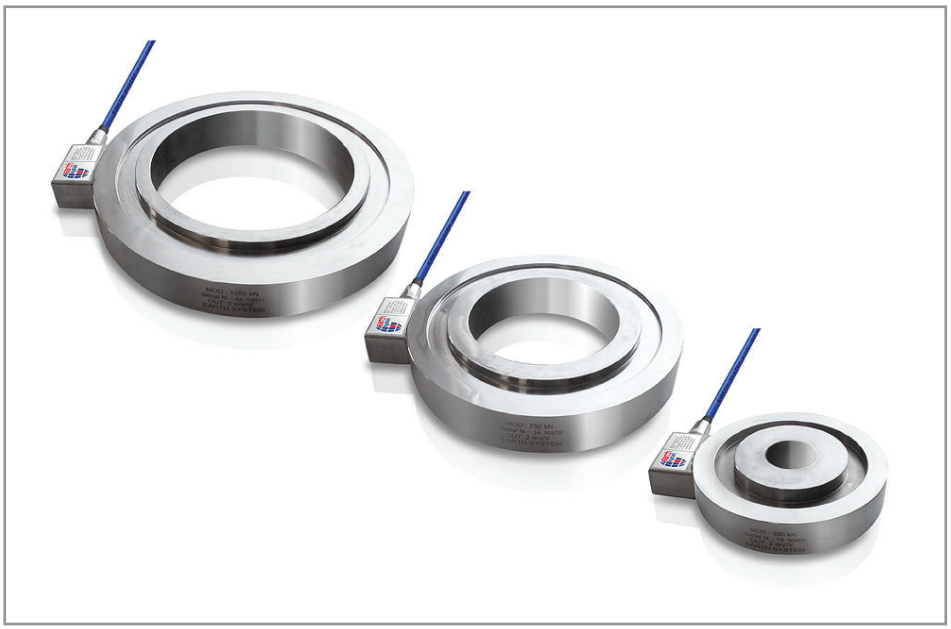
ANCHOR LOAD CELL

TECHNICAL FEATURES

- Measuring range 350-2500 kN
- Sensitized ring with 16 strain gauges
- Wheatstone bridge:
  input resistance 1450+ 50 Ω
  output resistance 1400 ±5 Ω
- Nominal sensitivity 2.0 mV/V +/- 0.15%
- Repeatability +/- 0.015% F.S.
- Optional output signal mV/4-20 mA
- Admissible overload 130% F.S.
- Ultimate tensile stress > 200% F.S.
- Combined error (total precision)
  <+/- 0.3 % F.S.
- Maximum deflection under load 0.4 mm
- Protection class IP 68
- Material stainless steel
- Electric power supply 5/15 V DC
- Operating temperature -15/+70°C
- Insulation resistance >5 GΩ
- Temperature coefficient of
  zero +/- 0.005% F.S./°C
- Temperature coefficient of
  F.S. +/- 0.005% F.S./°C
- Cable length and section 6 x 0.34 mm^2



Load cell dimensions



The resistive anchor load cell is a special ring-shaped instrument in stainless steel. It is used for testing the tension of strand anchors and anchoring bars or for monitoring these on the medium- and long-term.
It is sensitized by a set of strain gauges in a full Wheatstone bridge configuration so as to supply a load-proportional electric signal and increase the accuracy by reducing the sensitivity of the instrument to temperature variations. It is supplied with a cable whose length must be specified on order.
It is absolutely the most accurate load cell and is used in construction sites.
The ring-shaped load cell is chosen to suit the diameter and nominal load of the anchor.

DIMENSIONAL AND FULL SCALE SPECIFICATIONS

CODE	*Measuring range (XXXX)*	*Hole diameter (A)*	*Sensitive ring diameter (B)*	*Outer diameter (C)*	*Thickness (D)*
	kN	mm	mm	mm	mm
CCRtor165-XXXX	from 500 to 2500	165	190	260	40
CCRtor120-XXXX	from 350 to 1800	120	135	200	40
CCRtor110-XXXX	from 350 to 1500	110	135	200	40
CCRtor71-XXXX	from 350 to 1000	71	91	155	40
CCRtor50-XXXX	from 350 to 1000	50	91	155	40
CCRtor40-XXXX	from 350 to 1000	40	91	155	40

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