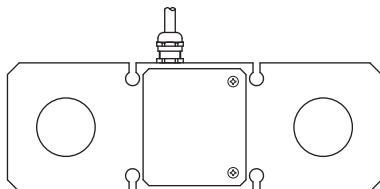


STRAIN GAUGE LOAD CELL

(Tension type)

Functions & Features

- Rated capacity 100 kN
- Easy to handle and install
- Suitable for measuring towing force and rope tension



PERFORMANCE in percentage of span

Rated output error: $\pm 10\%$

Zero balance: $\pm 10\%$ R.O.

Non-linearity: $\pm 0.2\%$ R.O.

Hysteresis: $\pm 0.2\%$ R.O.

Repeatability: $\pm 0.2\%$ R.O.

Temperature effect on zero: $\pm 0.005\%$ R.O./ $^{\circ}\text{C}$

Temperature effect on output: $\pm 0.005\%$ R.O./ $^{\circ}\text{C}$

Insulation resistance: 1000 M Ω or more (B/E 50V DC)

MODEL: LCT-100K

ORDERING INFORMATION

- Code number: LCT-100K

GENERAL SPECIFICATIONS

Cable type: 9 dia., 4-core shielded cable, split wire at the end

Cable length: 10 m

Body material: special alloy steel

Rated flexure: 0.09 mm or less

Natural frequency: Approx. 1.4 kHz

INPUT SPECIFICATIONS

Rated capacity (R.C.): 100 kN (10.2 tf)

Safe overload: 150 % R.C.

Limit overload: 200 % R.C.

Recommended excitation voltage: 10 V

Maximum excitation voltage: 15 V

Input terminal resistance: 380 $\Omega \pm 50 \Omega$

OUTPUT SPECIFICATIONS

Rated output (R.O.): 1 mV/V $\pm 10\%$

Output terminal resistance: 350 $\Omega \pm 10 \Omega$

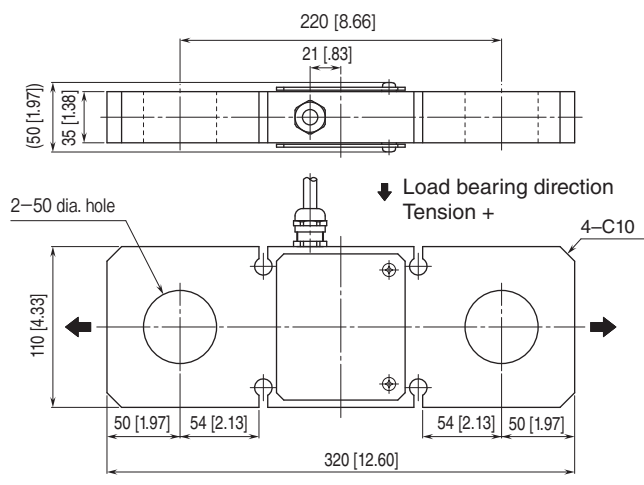
INSTALLATION

Compensated temperature range: -10 to +60 $^{\circ}\text{C}$ (14 to 140 $^{\circ}\text{F}$)

Safe temperature range: -20 to +70 $^{\circ}\text{C}$ (-4 to 158 $^{\circ}\text{F}$)

Weight: 8 kg (17.6 lb)

EXTERNAL DIMENSIONS unit: mm [inch]



• WIRING COLOR

ITEM	COLOR
Excitation voltage +	Red
Excitation voltage -	White
Output signal +	Green
Output signal -	Black
Shield	Yellow

 Specifications are subject to change without notice.