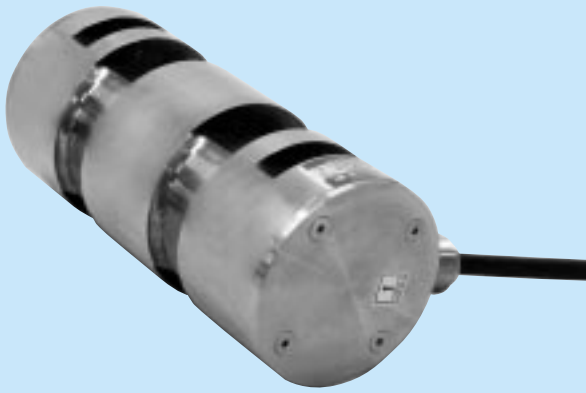


LTP-S-S

Pin-Type Load Cells

● Designed for Pulley Axis ● 10 to 500 kN



Mounted in place of the axis of crane's pulley, LTP-S-S series pin-type load cells enable measurement of hanging loads. Such the feature ensures easy installation and handling. Since strain gages are used as the load detector, each load cell in this series is compact, lightweight and economically priced.

Features

- Specially designed for installation to pin connection
- Compact, space-saving design
- Can be manufactured to meet the size of existing pin.

Specifications

Performance

Rated Capacity: See table below.
Nonlinearity: Within ± 1 to 2% RO (depends on user's spec.)
Hysteresis: Within ± 1 to 2% RO (depends on user's spec.)
Rated Output: Approx. 0.5 to 1 mV/V (1000 to 2000 $\mu\text{m/m}$)

Environmental Characteristics

Safe Temperature Range: -20 to 80°C
Compensated Temperature Range: -10 to 70°C
Temperature Effect on Zero Balance: Within $\pm 0.05\%$ RO/ $^{\circ}\text{C}$
Temperature Effect on Output: Within $\pm 0.05\%$ / $^{\circ}\text{C}$

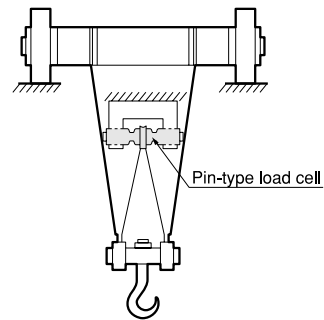
Electrical Characteristics

Safe Excitation Voltage: 15 VAC or DC
Recommended Excitation Voltage: 1 to 10 VAC or DC
Input Resistance: $700\ \Omega \pm 3\%$
Output Resistance: $700\ \Omega \pm 3\%$
Cable: 4-conductor chloroprene shielded cable (length is as required)

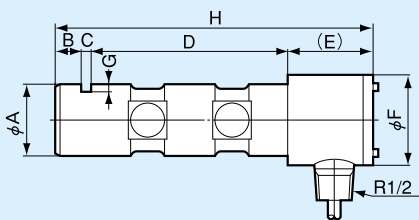
Mechanical Properties

Safe Overload Rating: 150%

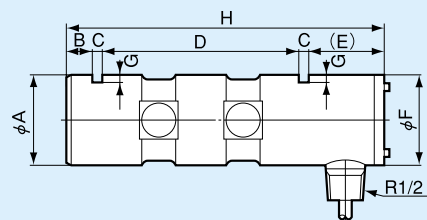
Installation Example



Dimensions



LTP-S-10 to 50KNS



LTP-S-100 to 500KNS

| Model | Rated Capacity | ϕA | B | C | D | (E) | ϕF | G | H |
|--------------|----------------|----------|----|----|-----|-----|----------|----|-----|
| LTP-S-10KNS | 10 kN | 40 | 15 | 5 | 112 | 40 | 50 | 4 | 172 |
| LTP-S-20KNS | 20 kN | | | | | | | | |
| LTP-S-50KNS | 50 kN | 50 | 15 | 7 | 140 | 40 | 55 | 6 | 202 |
| LTP-S-100KNS | 100 kN | 60 | 20 | 8 | 168 | 40 | 60 | 8 | 244 |
| LTP-S-200KNS | 200 kN | 70 | 20 | 10 | 212 | 40 | 70 | 8 | 292 |
| LTP-S-500KNS | 500 kN | 95 | 22 | 12 | 262 | 45 | 95 | 10 | 341 |

Dimensions above are reference values and can be changed to user's specifications.