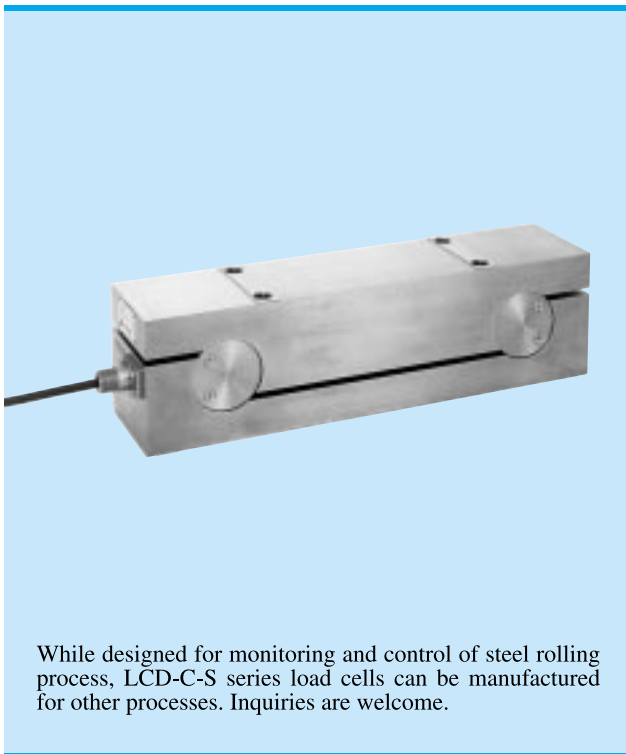


# LCD-C-S

## Rectangular Load Cells

● For Steelmaking Line ● 30 to 100 kN



While designed for monitoring and control of steel rolling process, LCD-C-S series load cells can be manufactured for other processes. Inquiries are welcome.

### Features

- Safe overload rating of 400%
- Mechanical overload rating of 500%
- Corrosion resistant
- Highly reliable structure (IP64)

### Specifications

#### Performance

Rated Capacity:

Model	Rated Capacity
LCD-C-30KNS	30 kN
LCD-C-50KNS	50 kN
LCD-C-70KNS	70 kN
LCD-C-100KNS	100 kN

Nonlinearity: Within  $\pm 0.2\%$  RO

Hysteresis: Within  $\pm 0.1\%$  RO

Repeatability:  $\pm 0.1\%$  RO or less

Rated Output: 0.8 mV/V (1600  $\mu\text{m/m}$ ) or more

#### Environmental Characteristics

Safe Temperature Range:  $-20$  to  $120^\circ\text{C}$

Compensated Temperature Range:  $-10$  to  $100^\circ\text{C}$

Temperature Effect on Zero Balance: Within  $\pm 0.01\%$  RO/ $^\circ\text{C}$

Temperature Effect on Output: Within  $\pm 0.01\%$ / $^\circ\text{C}$

#### Electrical Characteristics

Safe Excitation Voltage: 15 VAC or DC

Recommended Excitation Voltage: 1 to 10 VAC or DC

Input Resistance:  $700\ \Omega \pm 2\%$

Output Resistance:  $700\ \Omega \pm 2\%$

Cable: 4-conductor (0.75 mm<sup>2</sup>) fluonlex shielded cable, 8 mm diameter by 20 m long, bared at the tip

#### Mechanical Properties

Mechanical Overload Rating: 500%

Safe Overload Rating: 400%

Safe Lateral Load Rating: 100%\*

Weight: Approx. 40 kg

Protection Rating: IP64

(Splashproof type conforming to JIS C 0920)

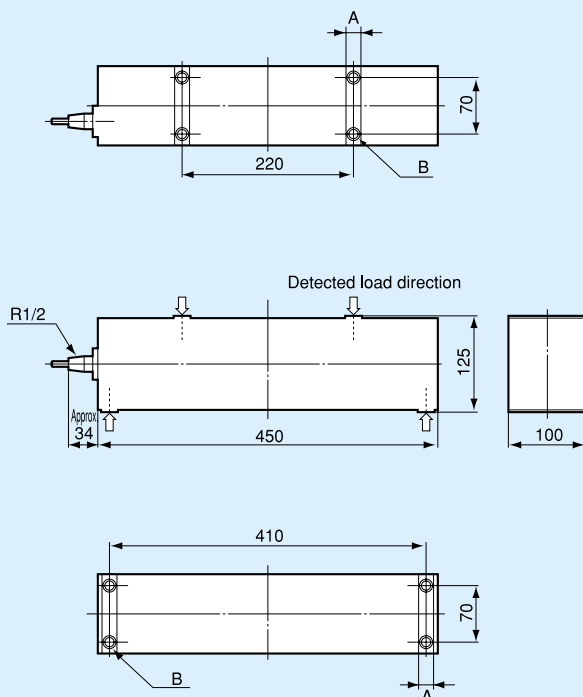
Material: Stainless steel (metallic finish)

\* If the load cell is expected to receive lateral loads, consult with our sales engineer.

• Models which can measure both tension and compression loads can be manufactured.

• Also available are small-sized models, 360 or 230 mm long, with smaller capacities than stated above and models with higher capacities.

### Dimensions



Model	A	B
LCD-C-30KNS	20	4-M16 d=25
LCD-C-50KNS	20	
LCD-C-70KNS	20	
LCD-C-100KNS	30	4-M20 d=25