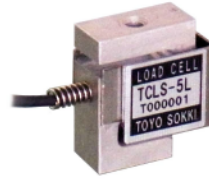


# Miniature S-beam load cell

# TCLS

- Capacities : 10N...500N
- Suitable for measuring tension and compression in applications where the available space is limited



## Model

Rated Capacity

**TCLS-**

1L	10N (1.02kgf)
2L	20N (2.04kgf)
5L	50N (5.1kgf)
10L	100N (10.2kgf)
20L	200N (20.4kgf)
50L	500N (51kgf)

## Specifications

Rated output (R.O.)	0.7mV/V : [10N]    1mV/V : [20N...500N]
Rated output tolerance	±20%
Zero balance	±10%R.O.
Nonlinearity	±0.2%R.O.
Hysteresis	±0.2%R.O.
Repeatability	±0.1%R.O.
Temperature effect on zero	±0.05%R.O./°C
Temperature effect on output	±0.05%LOAD/°C
Temperature range, compensated	-10°C~+60°C
Temperature range, safe	-20°C~+70°C
Maximum safe overload	150%R.C.
Excitation, recommended	2.5V
Excitation, maximum	5V
Input impedance (approx.)	350Ω
Output impedance (approx.)	350Ω
Insulation resistance	>1000MΩ (B/E DC50V)
Cable type	φ1.6, 4-wire, PVC, braid shield
Cable length	1m
Construction	Aluminum : [10N...100N] Stainless steel : [200N, 500N]

## Cable color code

Item	Color
Excitation +	Red
Excitation -	White
Signal output +	Green
Signal output -	Blue
Shield	Shield

## Electrical characteristics

Model	Rated deflection	Natural Frequencies (Approx.)	Weight (Approx.)
TCLS-1L	<0.01mm	4.6kHz	3g
TCLS-2L		5.1kHz	
TCLS-5L		8.1kHz	
TCLS-10L		10kHz	4g
TCLS-20L		9.2kHz	10g
TCLS-50L		10.7kHz	11g

## Outline dimensions (mm)

