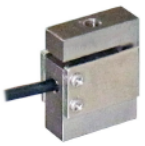
Miniature S-beam load cell

TCSS

- Capacities : 1N...50N
- Suitable for measuring tension and compression in applications where the available space is limited



Model

Rated Capacity

TCSS- □

0.1L	1N (102gf)
0.2L	2N (204gf)
0.5L	5N (510gf)
1L	10N (1.02kgf)
2L	20N (2.04kgf)
5L	50N (5.1kgf)

Specifications

Rated output (R.O.)	0.5mV/V～1.5mV/V : [1N, 2N] 1.5mV/V～2.5mV/V : [5N...50N]
Zero balance	±50%R.O.
Nonlinearity	±0.2%R.O.
Hysteresis	±0.2%R.O.
Repeatability	±0.1%R.O.
Temperature effect on zero	±0.1%R.O./℃
Temperature effect on output	±0.1%LOAD/℃
Temperature range, compensated	−10℃～+50℃
Temperature range, safe	−10℃～+60℃
Maximum safe overload	200%R.C.
Excitation, recommended	5V
Excitation, maximum	10V
Input impedance (approx.)	1000Ω
Output impedance (approx.)	1000Ω
Insulation resistance	>1000MΩ (B/E DC50V)
Cable type	φ1.6, 4-wire, PVC, braid shield
Cable length	1m
Construction	Beryllium copper : [1N, 2N] Stainless steel : [5N...50N]

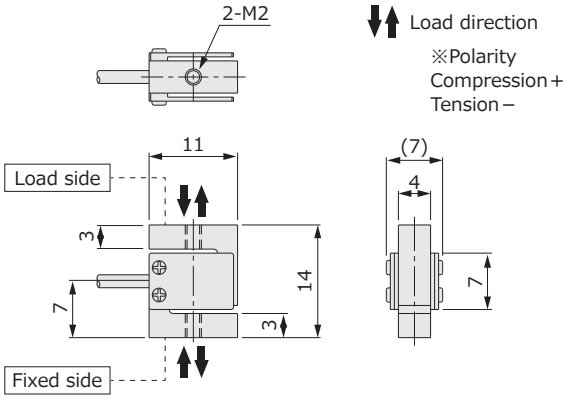
Cable color code

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

Electrical characteristics

Model	Rated deflection	NaturalFrequencies (Approx.)	Weight (Approx.)
TCSS-0.1L	<0.02mm	4.6kHz	3g
TCSS-0.2L		4.9kHz	
TCSS-0.5L		6.5kHz	
TCSS-1L		7.1kHz	
TCSS-2L		8.5kHz	
TCSS-5L		11kHz	

Outline dimensions (mm)



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