

SINGLE CANTILEVER BEAM FORCE SENSORS (ADVANCED TYPE)

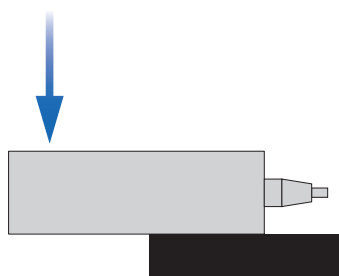
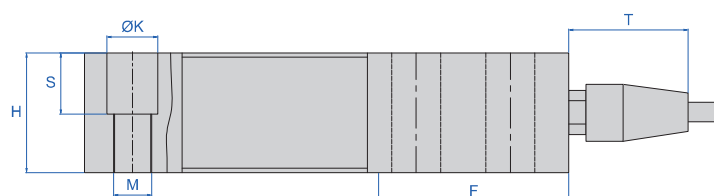
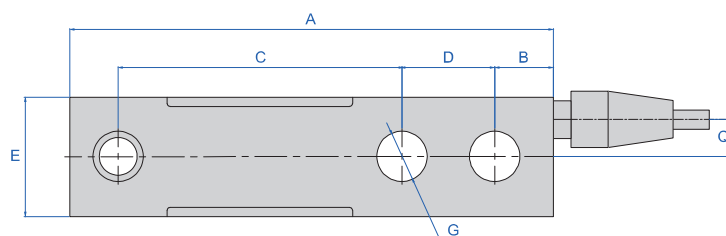
- Cantilever beam structure
- High precision and high stability
- Easy and quick installation
- Nickel-plated surface corrosion protection
- Suitable for platform scales, concrete plants, belt scales, batching scales, force gauges and etc.

SPECIFICATION

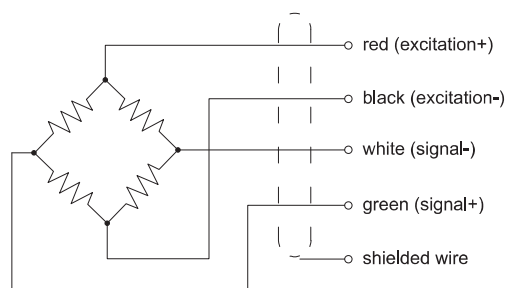
Rated output	2.0±0.1% mV/V or 3.0±0.1% mV/V
Zero balance	±1% of rated output
Creep	±0.03% of rated output
Nonlinearity	±0.03% of rated output
Hysteresis	±0.03% of rated output
Repeatability	±0.03% of rated output
Sensitivity temperature drift	≤0.002% of applied output/ $^{\circ}\text{C}$
Zero temperature drift	≤0.002% of rated output/ $^{\circ}\text{C}$
Material	High-quality alloy steel
Range of working temperature	-35~+70 $^{\circ}\text{C}$
Range of compensation temperature	-10~+40 $^{\circ}\text{C}$
Safety overload	150%
Input impedance	387±20 Ω
Output impedance	350±5 Ω
Insulation impedance	≥5000M Ω (50V DC)
Recommended excitation voltage	10V DC/AC
Maximum excitation voltage	15V DC/AC
Cable length	6m



8653-500K



force diagram of sensor



schematic

														(mm)
Code	Maximum range	A	B	C	D	E	F	G	H	M	K	S	T	Q
8653-250L	250lb/1000N	130	15.7	76.2	25.4	31.8	57	2×Ø13.5	31.8	1/2"-20 UNF	13.5	16.2	32	10.1
8653-250K	250kg/2500N									M12×1.75				
8653-500K	500kg/5000N													
8653-1T	1T/10kN													
8653-1D5T	1.5T/15kN													
8653-2T	2T/20kN													
8653-2D5T	2.5T/25kN	171.4	19	95.2	38.1	37.4	76	2×Ø19.8	37.4	M18×1.5	19.8	17.8	32	13
8653-5T	5T/50kN	222.2	25.4	120.6	50.8	50	102	2×Ø26.2	50	M24×2	26.2	25	17	17
8653-7D5T	7.5T/75kN													
8653-10T	10T/100kN													

(mm)