

TEKFA bending beam load cell

Model TBS1



TEKFA's stainless steel bending beam load cell, model TBS1, is an industrial standard load cell suitable for a wide range of weighing tasks. The TBS1 load cell is typically used in containers, tanks, platform scales, and various dosing systems.

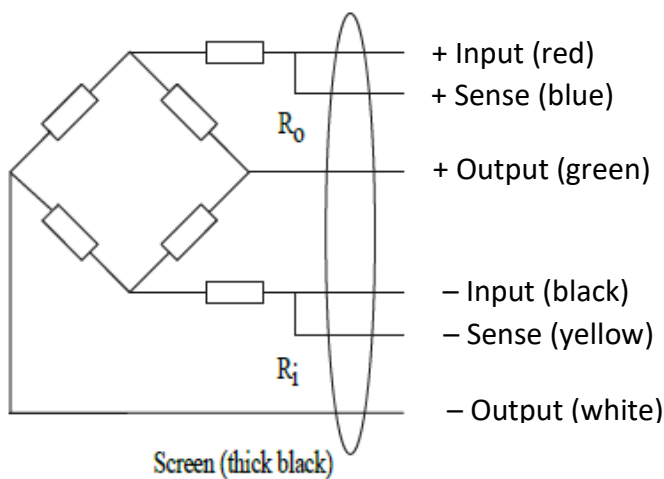
The load cell is made of stainless steel and has an IP68 rating, making it protected against both water and dust.

The TBS1 series is produced with capacities ranging from 5 to 300 kilograms. All TEKFA load cells are standard-calibrated, meaning they have the same zero point and the same amplification of 1.8 mV/V. Therefore, a load cell can be replaced with another of the same capacity without recalibrating the weighing system.

The load cells can be connected to all 350Ω full-bridge load amplifiers as well as TEKFA's instruments, ranging from weight indicators to PLCs and weighing computers with built-in special programs.

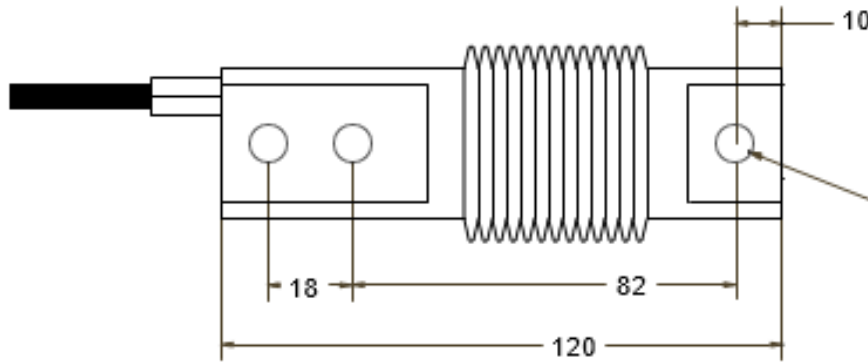
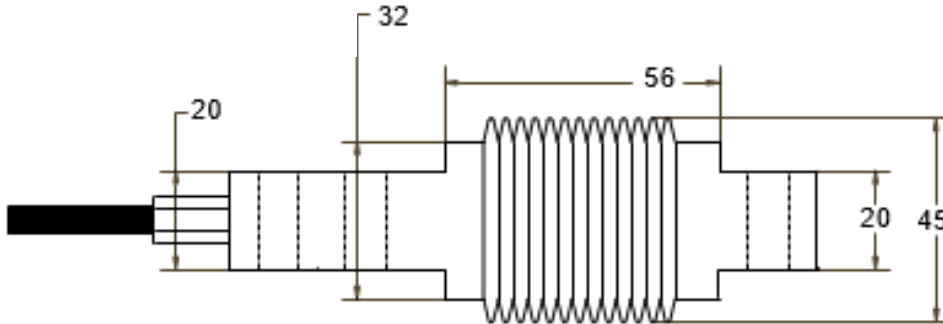
Specifications	
Rated output	2.0 ± 0.002 (mV/V)
Total error	±0.02% F.S.
Linearity	±0.02% F.S.
Zero balance	±1 % F.S.
Input resistance	400 ± 10 Ω
Output resistance	352 ± 2 Ω
Insulation resistance	≥ 5000 MΩ
Temperature range	-30 - +70 C°
Safe overload	150% F.S.
Destructive overload	200% F.S.
Recommended supply	10-12 V (VDC/VAC)
Maximum supply	15 V (VDC/VAC)
Material	Stainless steel
Protection rating	IP68
Standard cable length	5 meters
Net weight	0.5 kg

Connection



R_o : 352 Ω; R_i : 400 Ω

All dimensions are in mm



Capacity (kg)	Hole diameter (mm)
5-200	Ø 8,2
300	Ø 10,2

Item no.	Capacity (kg)	Item no.	Capacity (kg)	Item no.	Capacity (kg)
TBS1-5	5	TBS1-50	50	TBS1-200	200
TBS1-10	10	TBS1-75	75	TBS1-300	300
TBS1-20	20	TBS1-100	100		
TBS1-30	30	TBS1-150	150		