



Description

70310 is double ended shear beam load cell which is ideally suited for truck, track, tank & hopper weighing applications. From its nickel exterior protection to its triple seal gauge area, this cell is designed to withstand the rigorous of harsh environmental conditions. The cell is compatible with the "unlink" suspension system and is direct replacement for the 65058. THIS CELL IS USED WITH THE ADI ARTECH WM-V WEIGH MOUNT – at an extra cost.

Applications

- Tensile Testing
- Truck, Tank & Hopper weighing
- Weighbridge

Key Features

High accuracy available As per standard ISO 376:2011

Triple Sealing for environmental Protection

Complete Environmental Protection – Meets IP 65, IP 67 & or IP 68 class

Electro less nickel-plated tool steel constructions

A high-temperature version can be provided on request

Wide range of capacities from 5 TF to 100 TF

Standardized output (3.0 mV/V) and customized output can be provided on request

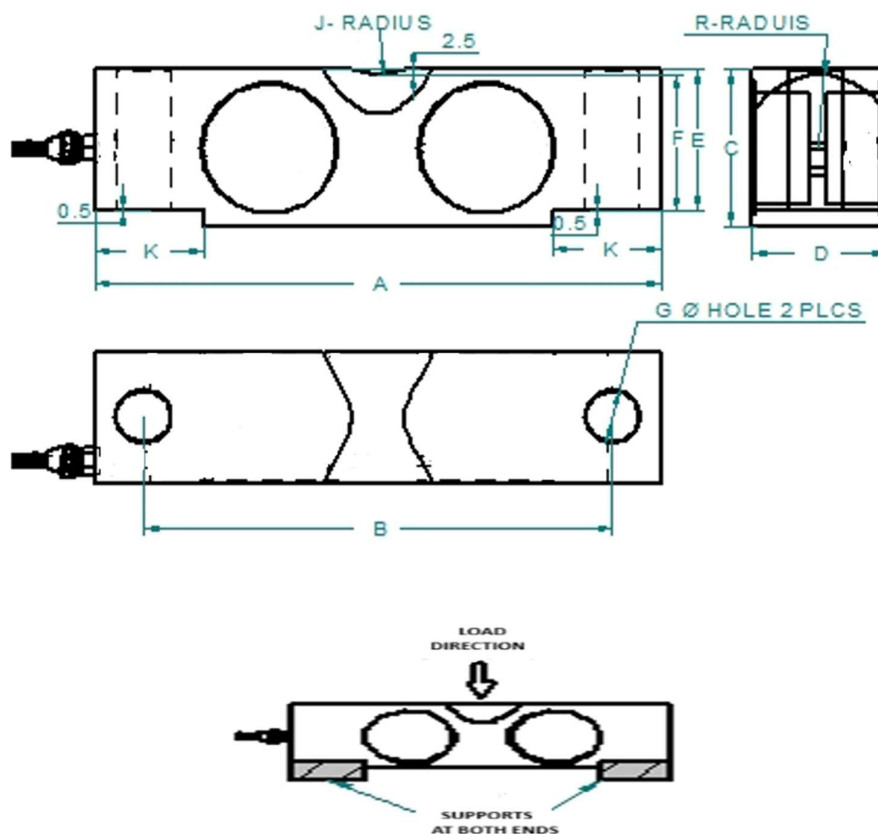
Calibration in mV/V/Ω

Can be **customized** to suit customer's need

Technical Specifications

STANDARD CAPACITY		5, 10, 15, 20, 22.5, 23, 30, 40, 50, 75, 100	-TF
PERFORMANCE	Non - Linearity	< ± 0.025 % FSO	
	Hysteresis	< ± 0.02 % FSO	
	Non-Repeatability	< ± 0.01 % FSO	
	Creep (30 minutes)	< ± 0.03 % FSO	
	Zero Balance	± 1 % FSO	
ELECTRICAL	Output	3.00 mV/V (Customized Output available on request)	
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDC / 10VDC)	
	Input Resistance	$770 \pm 20.0 \Omega$ (Ohms)	
	Output Resistance	$700 \pm 2 \Omega$ (Ohms)	
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)	
STRUCTURE	Safe Overload Of Rated Capacity	150%	
	Ultimate Overload of Rated Capacity	300%	
	Allowable Side Load	50%	
	Side Load Discrimination	500:1	
	Deflection	< 0.5 mm at FSO	
	Finish Product	Electro less nickel-plated tool steel	
	As per IS/IEC 60529:2001	IP68	
TEMP.	Operating Temperature	0°C to 60°C (Optional 90°C, 120°C, 150°C)	
	Compensated Temperature	10°C to 50°C (Optional 90°C, 120°C, 150°C)	
	Temperature Effect on Output	< 0.0015 % FSO/ °C	
	Temperature Effect on Zero	< 0.0020 % FSO/ °C	
OPTIONAL	ATEX	II 3D EX tc IIIC T60°C DC , II 3G EX ec IIC GC	
	High Temperature Cable	Teflon Cable	
	High Temperature Range	40°C to 90°C (Temperature Effect on Output & Zero : < 0.020% FSO/ °C)	
	Accessories	DLC-6 DLC-6M DIGITAL LOAD CONTROLLER (MULTI. O/P)	

Dimension (mm)

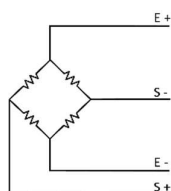


CAPACITY-TF	A	B	C	D	E	F	G	J	R	K	CABLE
5, 10	197	165	50	43	43	41	17	30	22	35	10 Meter
15, 20, 23, 30	261	216	75	62	67	65	25	30	35	49	15 Meter
40, 50	388	324	98	74	87	84	41	40	45	80	15 Meter
75, 100	490	387	133	108	104	98	41	50	60	102	15 Meter

All dimensions are in mm.

Specifications are Subject to Change.

Electrical Termination



Excitation(E+)	Red
Signal(S-)	White
Excitation(E-)	Black
Signal(S+)	Green
Shield	