70510
PIN TYPE LOAD CELL

Description

70510 Pin Load cell is strain gauge based and is used where pins or large bolts would generally be carrying the load. Typically this will include shackle pin, clevis pin & pulley shafts. This is constructed from heat treated stainless steel, suitable for food industries & harsh corrosive environment. Load pin is Double Ended Shear Beam Type Load cell which is provided with slot for keeper plate for load directions, anti-rotations & retaining purposes. **Digital version is also offered, equipped with Fully embedded electronics with RS485 communication capability for easy interface over long distance without signal loss.**

Applications

- Elevator, Hoist & crane Load Monitor
- Tow bar Connection
- Rope/Cable tension measurement by inserting as a D-Shackle pin
- Front end Loader
- Rail road coupling
- Process & Automation

Key Features

High accuracy available As per standard ISO 376:2011

Complete Environmental Protection – Meets IP 65 class

Stainless steel constructions

A high-temperature version can be provided on request

Wide range of capacities from 0.5 TF to 400 TF

Standardized output (1.0 mV/V) and customized output can be provided on request

Calibration in mV/V/Ω

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

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Technical Specifications

STANDARD CAPACITY		**0.5, 1, 2, 3, 5, 10, 20, 30, 50, 75, 100, 150, 200, 300, 400 -TF**
PERFORMANCE	Non - Linearity	< ±0.5 % FSO
	Hysteresis	< ±0.3 % FSO
	Non-Repeatability	< ±0.2 % FSO
	Creep (30 minutes)	< ±0.1 % FSO
	Zero Balance	±1 % FSO
ELECTRICAL	Output	1.00 mV/V
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDC / 10VDC)
	Input Resistance	390 ±5 / 770 ± 20.0 Ω (Ohms)
	Output Resistance	350 ± 2 / 700 ± 2 Ω (Ohms)
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)
STRUCTURE	Safe Overload Of Rated Capacity	150%
	Ultimate Overload of Rated Capacity	250%
	Allowable Side Load	50%
	Deflection	< 0.4 mm at FSO
	Finish Product	Stainless Steel 17-4 PH Sensing element
	As per IS/IEC 60529:2001	IP65
TEMP.	Operating Temperature	0ºC to 60ºC (Optional 90ºC, 120ºC, 150ºC)
	Compensated Temperature	10ºC to 50ºC (Optional 90ºC, 120ºC, 150ºC)
	Temperature Effect on Output	< 0.005 % FSO/ ºC
	Temperature Effect on Zero	< 0.005 % FSO/ ºC
OPTIONAL	ATEX	II 3D EX tc IIIC T60ºC DC , II 3G EX ec IIC GC
	High Temperature Cable	Teflon Cable
	High Temperature Range	40ºC to 90ºC (Temperature Effect on Output & Zero : < 0.020% FSO/ ºC)
	Accessories	DLC-6 | DLC-6M DIGITAL LOAD CONTROLLER (MULTI. O/P)

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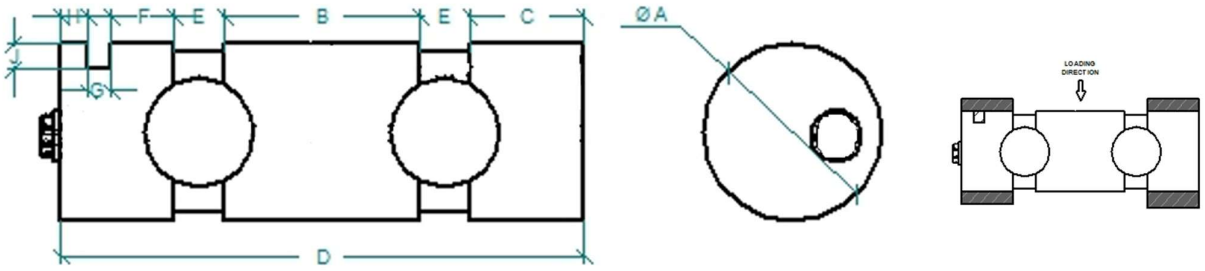
Dimension (mm)

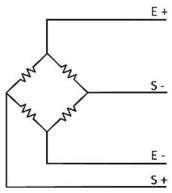


CAPACITY-TF	A	B	C	D	E	F	G	H	J	CABLE
0.5, 1, 2	25	23	21	81	8	9.5	6.5	5	4.5	5 Meter
3, 5	35	37	26.5	110	10	13	6.5	7	6	5 Meter
10	50	52	38.5	157	14	20	8.5	10	7	5 Meter
20	65	72	42	192	18	23.5	8.5	10	9.5	5 Meter
30	75	82	53.5	225	18	31	10.5	12	10.5	5 Meter
50	85	97	61.5	260	20	39	10.5	12	12	5 Meter
75, 100	100	102.5	78	328	35	55	10.5	12	14	5 Meter
150, 200	120	144	95	429	40	75	15	20	15	5 Meter
300	150	168	120	521	45	98	20	25	17.5	5 Meter
400	177	160	160	615	50	140	25	30	20	5 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	