

Digital column type load cell designed for tension and compression force testing applications.



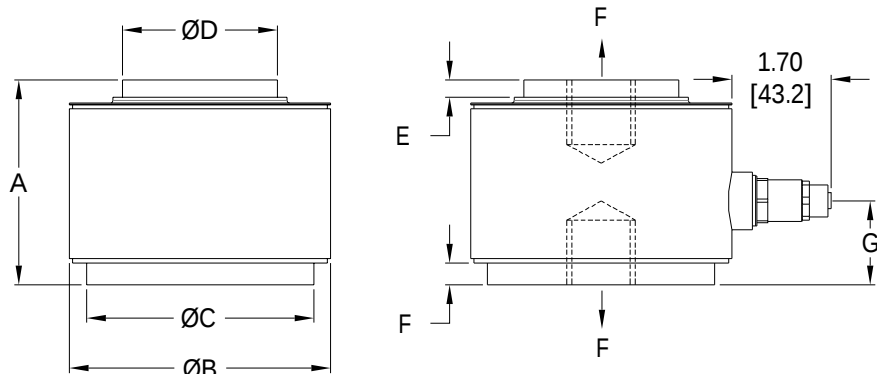
FEATURES

- Capacity range 10k-50k.
- Stainless steel construction.
- Environmental protection IP69.
- AD conversion rate up to 1200upd./sec.
- Free software for simple load cell set up and operation.

APPLICATIONS

- Aircraft weighing, Tank weighing, Truck scales, Digital force testers.

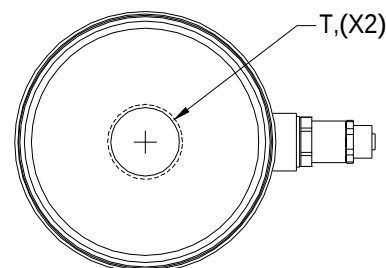
OUTLINE DIMENSIONS



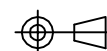
NOTE:

POSITIVE LOADING DIRECTION IS SHOWN BY ARROWS.

M12, 8PIN MALE CONNECTOR TO OPEN ENDED, 6 FEET LONG MATING CABLE PROVIDED WITH THE LOAD CELL.



Capacity (klb)	A	B	C	D	E	F	G	T
10	2.51 [63.8]	3.48 [88.4]	2.53 [64.3]	1.25 [31.8]	0.12 [3.0]	0.12 [3.0]	1.00 [25.4]	5/8-18UNF-3B, 1.12[28.4]DP.
50	3.50 [88.9]	4.46 [113.3]	3.89 [98.8]	2.65 [67.3]	0.30 [7.5]	0.37 [9.4]	1.43 [36.4]	1-1/4-12UNF-3B 1.40[35.5]DP.



column load cell

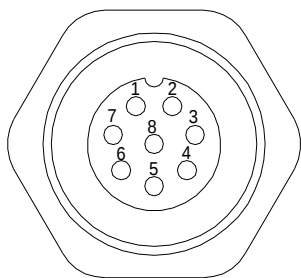
DTC 5043D



WIRING

Female Connector Signal Electronics M12AF0008		
Pin No.	RS-232+CAN	RS-485+RS-422
1	GND1	GND1
2	PROGRAM	PROGRAM
3	CANH	Rx+
4	TRIGGER INPUT	TRIGGER INPUT
5	CANL	Rx-
6	RxD	Tx-
7	TxD	Tx+
8	PWR+	PWR+

PIN CONFIGURATION



SPECIFICATIONS

Model	DTC		
Capacities (E _{max})	klb	10	50
PERFORMANCES			
Minimum Load Cell Verification Interval(V _{min})	g	E _{max} /10000	
Combined Error	%FS	≤±0.017	
Creep @ 30min	%FS	≤±0.017	
Zero Balance, raw counts	increments	±2000	
Output resolution at full load, raw counts	increments	512000	
Internal AD conversion rate	upd./sec	1200	
Fix, Digital Low Pass IIR Filter, Default	Hz	18 (Supress 50Hz and 60Hz Influence)	
Adjustable , Digital Low Pass IIR Filter	Hz	18-0.25; Selectable in 8 Steps	
Adjustable , Digital Low Pass FIR Filter		40-5; Selectable in 8 Steps	
Adjustable, External Output Update Rate	upd./sec	1200-9; Selectable in 8 Steps	
GENERAL I/O's			
Hardware Interface, CAN Version	CAN and RS232 RS485 and RS422 (Both Four Wire)		
Hardware Interface, RS Version			
Data transmission rates CAN Data transm. rates RS485/RS422/ RS232	kb	125;250;500;1000 9.6;19.2;38.4;57.6;115.2;230.4;460.8	
Protocol CAN Protocol RS485/ RS422/RS232	CAN Open ASCII or Modbus RTU		
Logical Input, Programmable	Trigger Level 2-30Vdc, <3mA, Ref to Gnd.		
Power supply	VDC	10-30 ≤ 0.4 Watt	
Connections	Standard 8 pin, female M12AF0008		
OPERATING SOFTWARE	Complete set-up, Calibration and load analysis program available		
INFLUENCES			
Safe Load Limit	%* E _{max}	140	
Ultimate Load	%* E _{max}	150	
Temperature Effect on Zero	%*E _{max} /10°C	0.01	
Temperature Effect on Span	%*E _{max} /10°C	0.01	
Temperature Range	°C	Operating: -10/+40 Storage: -40/+70	
I/O Protection, All Pins	Reversed Polarity; Excess Voltage and Surge		
Isolation Body/ Electronics at 500VDC	GΩ	≥1	
Vibration	2.5G Operational; 5G Non-Operational		
Environmental Protection	Body IP69; Connectors IP68		
Corrosion Resistance	Stainless Steel		

PART NUMBERS

Capacity(klb)	Option	Part No.
10	RS-232+CAN	5043D-000-00
50	RS-232+CAN	5043D-001-00
10	RS-485 +RS-422	5043D-000-01
50	RS-485 +RS-422	5043D-001-01

Dimensions and specifications subject to change without notice



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