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Model 661 Axial Load Cells

The quality, precision, and reliability of MTS Series 661 force transducers is acknowledged by engineers around the world. These fatigue rated tension/compression load cells provide an accurate electrical signal proportional to the applied load.



Models 661.18-.20

Typical Applications

- Static and dynamic axial force measurements applied with linear actuators.

Standard Features

- Axially stiff design for small transmissibility errors and increased dynamic performance.
- A one piece construction with aircraft quality materials for a fatigue rated life.
- Proprietary wiring technique reduces electrical noise and sensitivity to moments and side loads.
- Temperature compensated for long term stability.
- High static overload capacity of 150% of the rated load.



Models 661.22-.31

Model 661 Axial Load Cell Specifications

Model	Rated Force kN	Rated Force lbs	Thread C	Thread D	Height	Diameter	Output mV/V	Non Linearity
661.18E/F-01	1.0	220	1/2"-20	M12x1.25	67mm(2.62")	105mm(4.12")	1	0.08%
661.18E/F-02	2.5	550	1/2"-20	M12x1.25	67mm(2.62")	105mm(4.12")	1	0.08%
661.19E/F-01	5.0	1,100	1/2"-20	M12x1.25	67mm(2.62")	105mm(4.12")	1	0.08%
661.19E/F-02	10	2,200	1/2"-20	M12x1.25	67mm(2.62")	105mm(4.12")	2	0.08%
661.19E/F-03	15	3,300	1/2"-20	M12x1.25	67mm(2.62")	105mm(4.12")	1	0.08%
661.19E/F-04	25	5,500	1/2"-20	M12x1.25	67mm(2.62")	105mm(4.12")	2	0.08%
661.20E/F-02	50	11,000	1"-14	M27x2	95mm(3.75")	154mm(6.06")	2	0.08%
661.20E/F-03	100	22,000	1"-14	M27x2	95mm(3.75")	154mm(6.06")	2	0.08%
661.22C/D-01	250	55,000	1 _"-12	M36x2	203mm(8.00")	127mm(5.00")	2	0.15%
661.23E/F-01	500	110,000	2"-12	M52x2	203mm(8.00")	152mm(6.00")	2	0.15%
661.31E/F-01	1000	220,000	3"-12	M76x2	305mm(12.00")	222mm(8.75")	2	0.15%

* E and C in the model numbers designate English threads while F and D designate metric threads.
Specifications subject to change without notice. Please contact MTS for specifications critical to your application.

See MTS Model 661 Product Specification numbers 300141-01 (661.18), 300140-01 (661.19), 300139-01 (661.20), and 300143-01 (661.22-31) for more information.

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