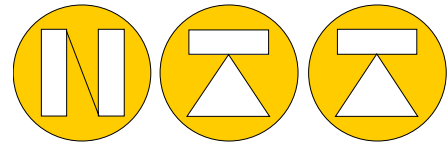


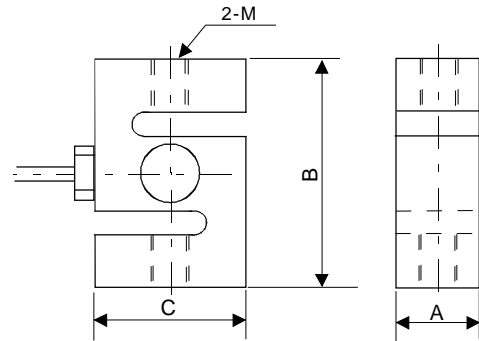
# S Beam Model TCTN-9110

## 50N - 50kN Transducer

### Tension / Compression



**NORDIC TRANSDUCER**



Model **TCTN-9110** is an sealed (50-50kN ) nickel plated tool steel S beam Transducer. Designed for tension and compression ( one at a time ) This cost effective product finds application in a wide range of environments also as good accuracy tension Transducer usage.

Capacity**	A	B	2M	C
0-50N, 0-100N, 0-200, 0-250N, 0-500N	12.7	64	M8 *1.25	51
0-1kN, 0-2kN, 0-3kN, 0-5kN	19.1	76	M12*1.75	51
0-10kN, 0-15kN	25.4	76	M12*1.75	54
0-20kN (only at special order min. 10 pcs)	25.4	82	M18*1.50	58
0-20kN, 0-30kN, 0-50kN	25.4	108	M20*1.50	76

\*\*Capacities has to be seen as say 0-100N, 0-25kN and so on in all the different capacities shown.

## TCTN-9110 SPECIFICATIONS

NOMINAL LOAD	50N ... 50kN	a) minimum load	0%
MINIMUM WORKING RANGE	0-25%	b) service load	100%
COMBINED ERROR	< +/- 0.04%	c) max. permissible load	120%
NON REPEATABILITY FS	< +/- 0.01%	d) breaking load	>300%
Creep % FS 30 min. 20 MIN	< +/- 0.03	e) max. side load	100%
TEMPERATUR EFFECT 10°C		PROTECTION CLASS 50..1kN	IP64
on zero	< +/- 0.05 %	2kN ... 100kN	IP65
on span	< +/- 0.1 %	Potted and seal	50N ... 5000N
NOMINAL SENSITIVITY +/-0.1	3mV/Volt	Potted and metal seal	10kN ... 100kN
Tension only ! Compression can differ. from this !.		NOMINAL TEMP. RANGE	0 ..+40 °C
INPUT RESISTANCE	385 +/- 10 Ohm	SERVICE TEMP. RANGE	-20/+70 °C
OUTPUT RESISTANCE	350 +/- 30Ohm	CELL MATERIAL (Nickel Plated)	Tool Steel
ZERO BALANCE FS	+/-1.0%	CABLE	Ø5 x 5 meter
SUPPLY VOLTAGE	5V - 15 Volt		

All specifications subject to change without notice

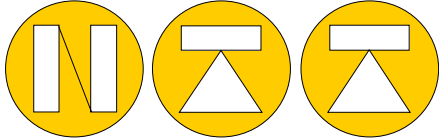
Please notice: all capacities can be delivered as 2mV/V +/-0.1% at special order

5 point Load Cell Test Report in tension come with all the load cells, showing Non linearity, Repeatability & Hysteresis.

Please notice that Tension & Compression mV/V output can be different

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**NORDIC TRANSDUCER**

# S Beam Model TCTN-9110

*Rod end bearings can also be supplied for all TCTN-9110 capacities*

Please notice following:

Standard test follow each cell made at tension.

Proper bearings like these, must be used to give the Load cell a freedom of movement under loading.

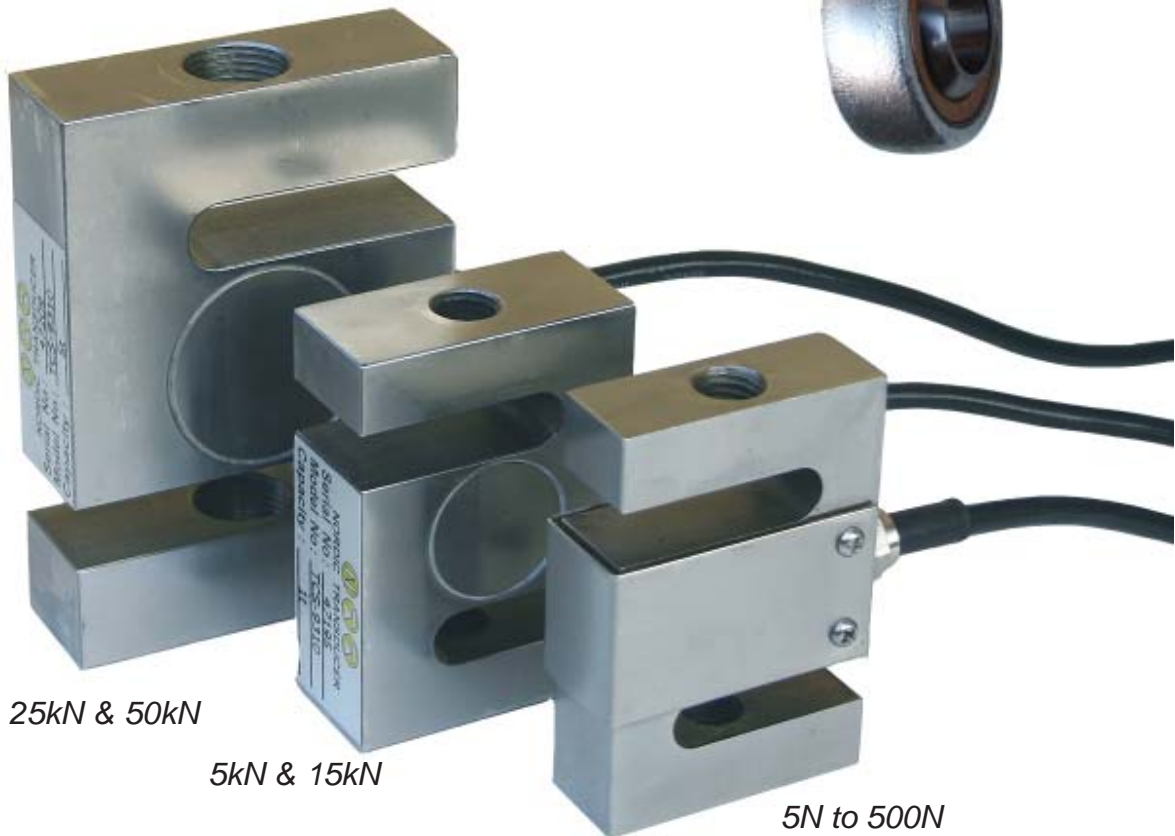
Deflection at Emax. < 0.5mm

Other types of tools has to be used under correct compression usage !



**Cable color code**

Red	+ Excitation	Green	+ signal
Black	- Excitation	White	- signal



*25kN & 50kN*

*5kN & 15kN*

*5N to 500N*

*Complete closed by special potting compound and then protected by i integrated cover plate as shown*

*Complete closed by special potting compound and then protected by outside mounted cover plate as shown*