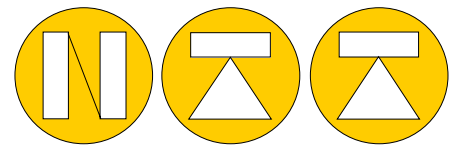


CTC8-TM

EN ISO376 Class 0.5/1.0



NORDIC TRANSDUCER



Capacities from 5kN to 1 MN for use in:

- High accuracy test systems
- Other force measuring applications
- Classification according to : EN ISO376 or ASTM E74 on request.

- A traceable test certificate from approved test facilities can be supplied as options.
- EN ISO376 Class 1.0 from 5kN to 1000kN

The TC8TM is a low profile hermetically sealed load cell made in stainless steel with IP67 protection . Their compact size makes them ideally suited for applications where space also is limited & where high side forces or dynamic loads are present.

They can together with our high accuracy instruments be used as reference load cells for many types of factory verification.

SPECIFICATIONS TC8-TM:

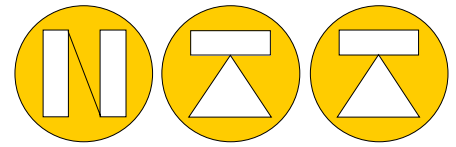
NOMINAL LOAD in KN	5-10-25-50-100-200-300-500-750-1000 kN		
Class ISO 376	1 in Tension & Compression Class 0,5 only Compression		
ACCURACY EN ISO 376	Class "1.0"	RELATIVE ERROR	Class 0.5 (on reading *)
Repeatability (0° - 120° - 240°)*	< +/- 0.145%		< +/- 0.075%
Interpolation (2° equation)*	< +/- 0.090%		< +/- 0.035%
Zero*	< +/- 0.030%		< +/- 0.020%
Reversitivity *	< +/- 0.240%		< +/- 0.120%
Non linearity F.S.	< +/- 0.03%		
Hysteresis F.S.	< +/- 0.03%		
Temp. effect on zero per 10°C	< +/- 0.028 %		
Temp. effect on span per 10°C	< +/- 0.024 %		
NOMINAL SENSITIVITY +/-0.1%	2mV/Volt		
Input/Output resistance	800/705 Ohm	DISPLACEMENT N.LOAD mm	0.06, 0.17, 0.23
Resistance for 500-750-1000kN	430/352 ⁽¹⁾ Ohm	NOMINAL TEMP. RANGE	-10/+40 °C
Zero balance	0.5% F.S	SERVICE TEMP. RANGE	-20/+70 °C
Supply voltage nominal 10V	2 - 15 Volt	STORAGE TEMP. RANGE	-20/+80 °C
MECHANICAL VALUES RELATED TO NOMINAL LOAD		PROTECTION CLASS	IP67
a) minimum load	0%	WEIGHT	2.45-5.80-16.5kg
b) service load	120%	CELL MATERIAL	Stainless IP67
c) max. permissible load	150%	CABLE LENGTH	5 meter
d) breaking load	>300%	FIXING SCREWS class 12.9	
e) max. side load	100%	Diameter M	M10 - M16 - M24
f) max. dynamic load	75%	Tightening torque	70 368 460

Cable: PVC 105°C Ø6.5mm with 4 tinned conductors Ø 0.35mm² and tinned shield Gravity acceleration $g = 9.804537 \text{ m/s}^2$

* min 1/10 of nominal load. (1) Related to 500-1000kN capacity

All specifications subject to change without notice

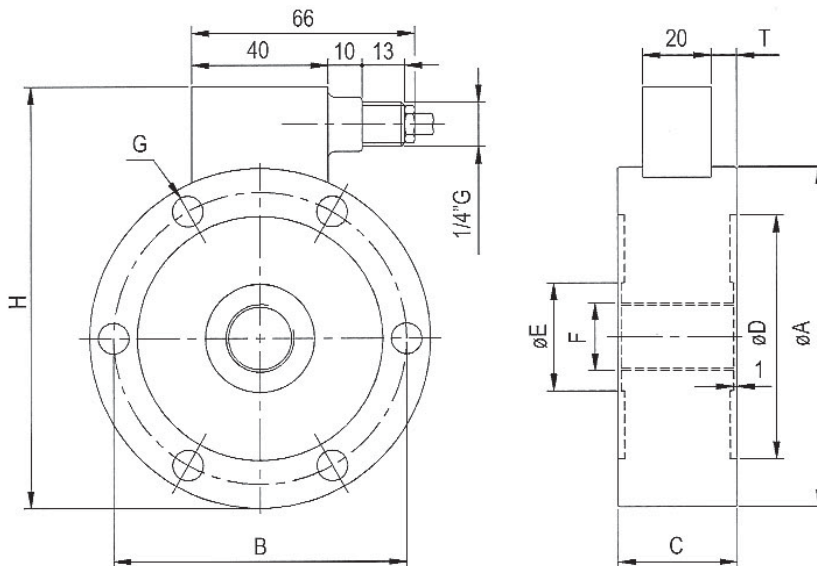
NordiC Transducer Als Oddevej 85 DK-9560 Hadsund Danmark
Tel. +45 98 58 14 44 Fax. +45 98 58 18 66 e-mail: ntt@ntt.dk WEB: www.ntt.dk



NORDIC TRANSDUCER

DIMENSIONS TC8-TM

Precision class 1.0 EN ISO 376

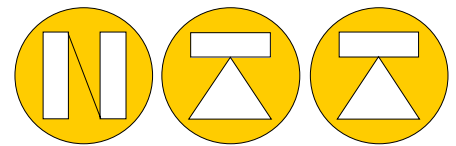


CODE	LOADS	øA	øB	C	øD	øE	øF	øG	Holes	H	T	kHz ⁽²⁾
												Natural frequency
CTC8TM5KNI15	5kN	127	110	35	92	47	M30x2	10.5	8	149	7.5	2.5
CTC8TM10KNI15	10kN	127	110	35	92	47	M30x2	10.5	8	149	7.5	2.5
CTC8TM25KNI15	25kN	127	110	35	92	47	M30x2	10.5	8	149	7.5	4.8
CTC8TM50KNI15	50kN	127	110	35	92	47	M30x2	10.5	8	149	7.5	3.8
CTC8TM100KNI15	100kN	165	138	60	110	62	M42x3	17.0	12	188	15	22.1
CTC8TM200KNI15	200kN	165	138	60	110	62	M42x3	17.0	12	188	15	22.1
CTC8TM300KNI15	300kN	165	138	60	110	62	M42x3	17.0	12	188	15	22.1
CTC8TM500KNI15	500kN	230	185	80	147	96	M60x3	25.0	12	254	15	18.2
CTC8TM750KNI15	750kN	230	185	80	147	96	M60x3	25.0	12	254	30	18.2
CTC8TM1MNI15	1000kN	230	185	80	147	96	M60x3	25.0	12	254	30	18.2

LOAD CELL WIRING

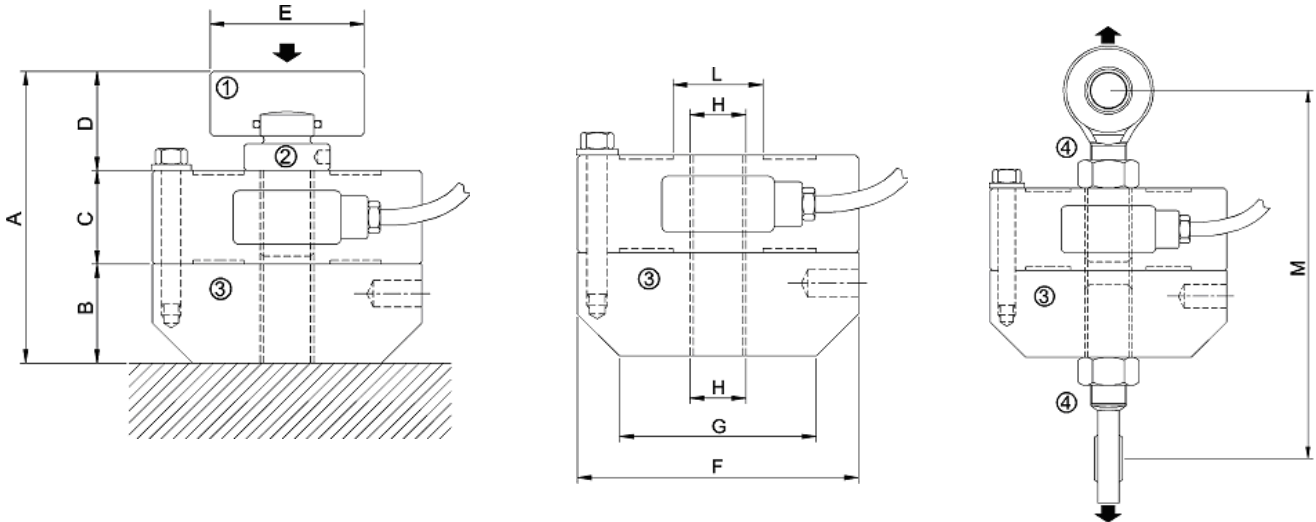
INPUT+ RED
 INPUT- BLACK
 OUTPUT+ WHITE
 OUTPUT- YELLOW
 SHIELD: **CONNECTED TO LOAD CELL BODY**

TC8-TM accessories



NORDIC TRANSDUCER

- 1) Loading head
- 2) Spherical loading head
- 3) Mounting base for compression and tension
- 4) Rod end Bearings



TC8-TM	A	B	C	D	E	F	G	H	L	M
5, 10, 25, 50kN	110	37	35	38	∅ 76	∅ 127	∅ 100	M 30 X 2	∅ 47	~ 200
100,200, 300kN	158	60	50	48	∅ 76	∅ 165	∅ 100	M 42 X 3	∅ 62	~ 224
500,750, 1000 kN	253	85	80	88	∅ 126	∅ 230	∅ 180	M 60 X 3	∅ 96	/

TC8-TM:

CODE

ACCESSORIES (optional):

5, 10, 25, 50kN

CTIC28
CTC445M30
CPBTC4D127
CACCEM30

- ① Loading head.
- ② Spherical loading head M30X2.
- ③ Mounting plate ∅ 127 mm.
- ④ Rod end Bearing

100, 200, 300kN

CTIC35
CTS62M42
CPBTC4D165
CACCEM42

- ① Loading head.
- ② Spherical loading head M42X3.
- ③ Mounting plate ∅ 165 mm.
- ④ Rod end Bearing

500,750, 1000 kN

CTIC60
CTS96M60
CPBTC4D230

- ① Loading head.
- ② Spherical loading head M60X3.
- ③ Mounting plate ∅230

Fixing bolt in class 12.9 steel

Tightening torque (Nm)

M10	M16	M24
70	368	460

Accessories material:
from 5-200kN:
from 300 1000kN:

Stainless Steel
Rm> 90kg/mm²
Rm> 130kg/mm²