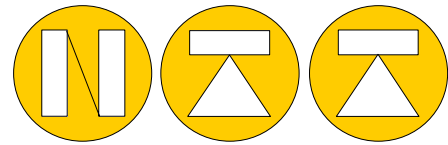


CTCE-TM Compression/Tension Load cell

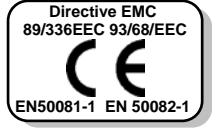
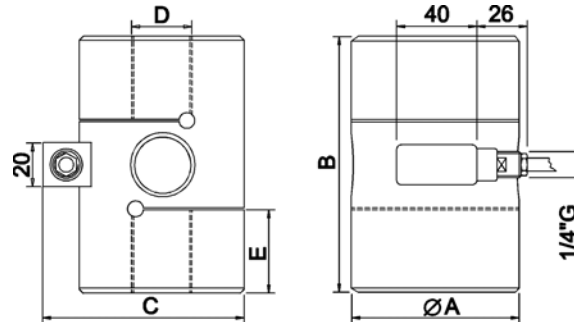
DATA SHEET: CTCETM.02.07.02/rev 02



NORDIC TRANSDUCER



DIMENSIONS (mm)





EN ISO 376

| EN Class 00 | EN Class 0.5 | EN Class 1 | LOAD | ØA | B | C | D | E |
|-----------------|----------------|----------------|-------|----|-----|-----|---------|------|
| CTCETM5KNI005 | CTCETM5KNI05 | CTCETM5KNI15 | 5 kN | 57 | 80 | 78 | M20X1.5 | 22.5 |
| CTCETM10KNI005 | CTCETM10KNI05 | CTCETM10KNI15 | 10 kN | | | | | |
| CTCETM25KNI005 | CTCETM25KNI05 | CTCETM25KNI15 | 25 kN | | | | | |
| CTCETM50KNI005 | CTCETM50KNI05 | CTCETM50KNI15 | 50 kN | 82 | 110 | 106 | M30X2 | 34.5 |
| CTCETM75KNI005 | CTCETM75KNI05 | CTCETM75KNI15 | 75 kN | | | | | |
| CTCETM100KNI005 | CTCETM100KNI05 | CTCETM100KNI15 | 100kN | | | | | |

Test applications

High long term stability

TECHNICAL DATA

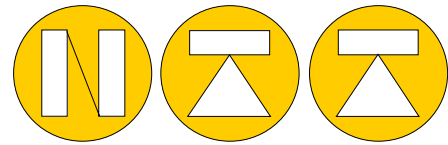
| | | | | |
|---|------------------------------------|--------------------------------|--------------------------|--------------------------|
| MP10 INDICATOR | Accuracy class: EN ISO 376 | 00 | 0.5 | 1 |
| | Accuracy class: EN 10002-3 | 00 | 0.5 | 1 |
|  <p>THE PERFECT INDICATOR FOR EN ISO376 TEST SYSTEMS</p> | NOMINAL LOAD ⁽¹⁾ | 5 - 10 - 25 - 50 - 75 - 100 kN | | |
| | RELATIVE ERROR (of reading) | | | |
| | a) repeatability 0°-120°-240° (b') | ≤ ±0.050% ⁽²⁾ | ≤ ±0.085% ⁽²⁾ | ≤ ±0.150% ⁽²⁾ |
| | b) interpolation (fc) | ≤ ±0.020% ⁽²⁾ | ≤ ±0.040% ⁽²⁾ | ≤ ±0.055% ⁽²⁾ |
| | c) reversivity (u) | ≤ ±0.070% ⁽²⁾ | ≤ ±0.135% ⁽²⁾ | ≤ ±0.250% ⁽²⁾ |
| | d) zero (fo) | ≤ ±0.010% F.S. | ≤ ±0.020% F.S. | ≤ ±0.020% F.S. |
| | LINEARITY | ≤ ±0.03% F.S. | | |
| | HYSTERESIS | ≤ ±0.03% F.S. | | |
| | TEMPERATURE EFFECT 10°C | | | |
| | a) on zero | ≤ ±0.030% F.S. | | |
| b) on sensitivity | ≤ ±0.011% F.S. | | | |
| NOMINAL SENSITIVITY | 2mV/Volt | | | |
| SENSITIVITY TOLLERANCE | ≤ ±0.1% F.S. | | | |
| INPUT RESISTANCE | 420±1Ω | | | |
| OUTPUT RESISTANCE | 352±1Ω | | | |
| INSULATION RESISTANCE | 5 GΩ | | | |
| ZERO BALANCE | 0.5 % F.S. | | | |
| RECOMENDED SUPPLY VOLTAGE | 10 Volt | | | |
| NOMINAL RANGE VOLTAGE | 1-15 Volt | | | |
| MAXIMUM SUPPLY VOLTAGE | 18 Volt | | | |
| MECHANICAL LIMIT VALUES RELATED TO NOMINAL LOAD | | | | |
| a) service load | 120% F.S. | | | |
| b) max permissible load | 150% F.S. | | | |
| c) breaking load | >300% F.S. | | | |
| d) maximum side load | 100% F.S. | | | |
| e) max permissible dynamic load | 50% F.S. | | | |
| DISPLACEMENT AT NOMINAL LOAD | max. 0.3mm | | | |
| REFERENCE TEMPERATURE | +23°C | | | |
| NOMINAL TEMPERATURE RANGE | -10/+40 °C | | | |
| SERVICE TEMPERATURE RANGE | -10/+70 °C | | | |
| STORAGE TEMPERATURE | -20/+80 °C | | | |
| WEIGHT | 1.51 - 4.45 kg | | | |
| PROTECTION CLASS (DIN EN 60529) | IP67 | | | |
| CELL MATERIAL | Stainless Steel | | | |
| CABLE LENGTH | 5m | | | |
|  <p>TCE TM Tension</p> | | | | |
| | | | | |

⁽¹⁾ kg calibration on request.

⁽²⁾ Percentual errors calculated to the value read, min. 1/ 10 of the nominal load. Classifications according ASTM E74 on request.

CTCE-TM Compression/Tension Load cell

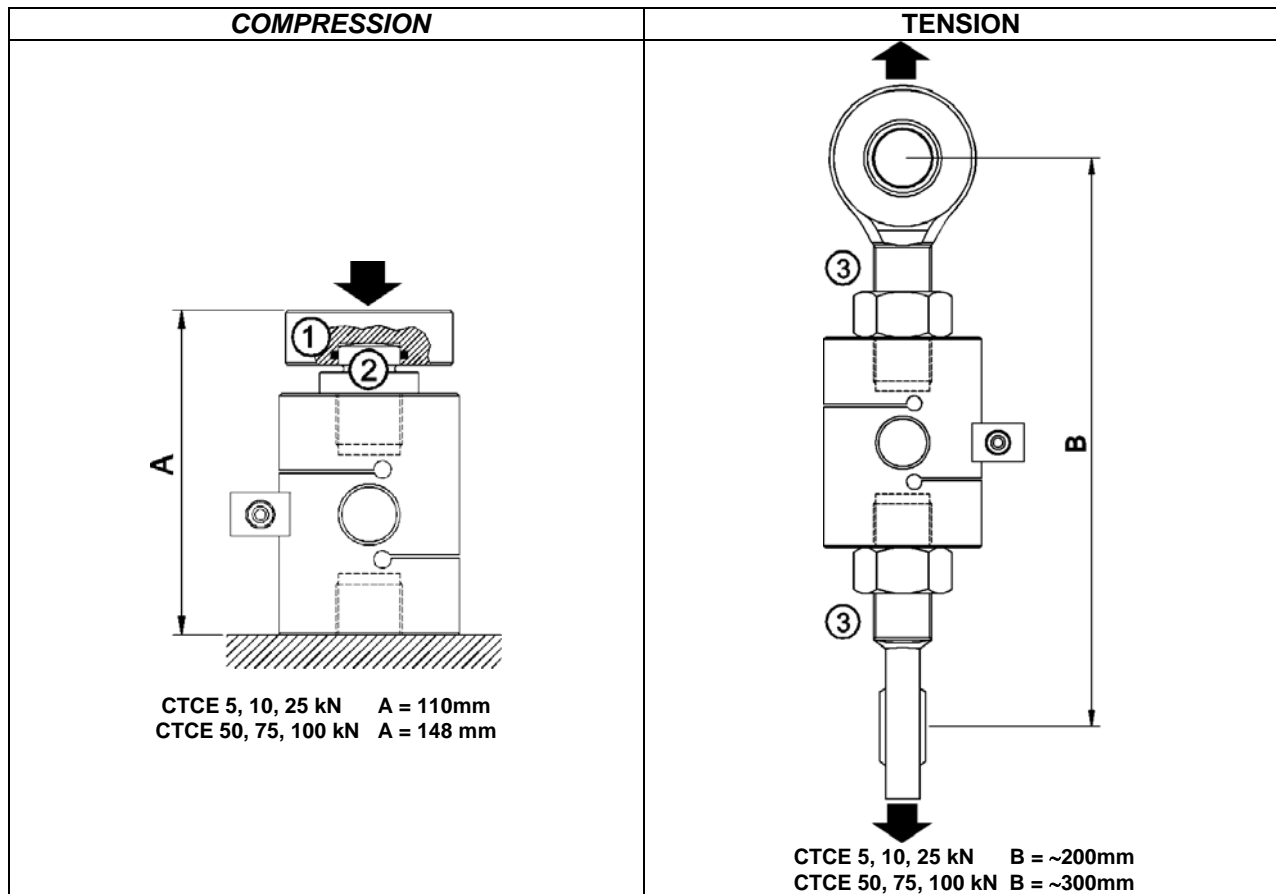
DATA SHEET: CTCE.TM.02.07.02/rev 02



NORDIC TRANSDUCER

APPLICATIONS

TCE.213.R0



WARNING:

Cable weight can influence the measurement, we therefore recommended to place it on the opposite site of the load.



| | CODE: | | ACCESSORIES (optionals): |
|----------------------|------------|---|--------------------------|
| CTCE: 5, 10, 25 kN | CTIC22 | 1 | Load head. |
| | CTS/25.M20 | 2 | Spherical load head. |
| | CEM20L | 3 | Rod end Bearing |
| CTCE: 50, 75, 100 kN | CTIC28 | 1 | Load head. |
| | CTS/45.M30 | 2 | Spherical load head. |
| | CEM30L | 3 | Rod end Bearing |

ELECTRICAL CONNECTIONS

PVC 105°C cable Ø3.8mm with 4 tinned conductors Ø0.35mm² and tinned shield.

| Dynamometer | OUTPUT | CABLE | MIL7M (optional) |
|-------------|--|--|-----------------------|
| | EXCITATION+ EXCITATION - OUTPUT+ OUTPUT- ----- | Red Black White Yellow Shield* | C B A D E |

* not connected to the load cell body.

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