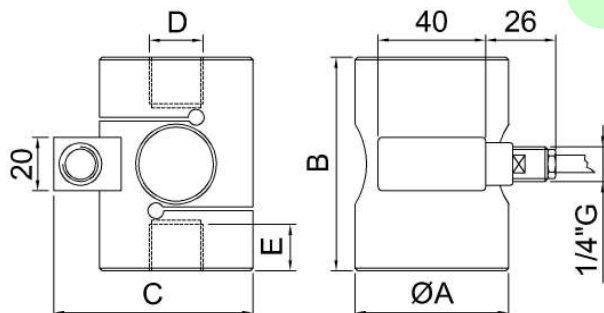


Dimensioni *Dimensions* [mm]


| CODE (Class 00) | CODE (Class 0.5) | CODE (Class 1) | LOAD | ØA | B | C | D | E |
|-----------------|------------------|----------------|--------|----|-----|------|---------|----|
| CTCETM5KN005 | CTCETM5KNI05 | CTCETM5KNI15 | 5 kN | 57 | 80 | 74.5 | M20X1.5 | 17 |
| CTCETM10KN005 | CTCETM10KNI05 | CTCETM10KNI15 | 10 kN | | | | | |
| CTCETM25KN005 | CTCETM25KNI05 | CTCETM25KNI15 | 25 kN | | | | | |
| CTCETM50KN005 | CTCETM50KNI05 | CTCETM50KNI15 | 50 kN | 82 | 110 | 102 | M30X2 | 20 |
| CTCETM75KN005 | CTCETM75KNI05 | CTCETM75KNI15 | 75 kN | | | | | |
| CTCETM100KN005 | CTCETM100KNI05 | CTCETM100KNI15 | 100 kN | | | | | |

OPZIONE II 2 G Ex ib IIC T6
OPTION II 2 D Ex ibD 21 T70°C
 Certificate: TÜV 06 ATEX 553026 X

FACILE APPLICAZIONE

EASY APPLICATION

SOLLECITAZIONI DINAMICHE

DYNAMIC STRESSES

Stabilità a lungo termine
 Long term high stability

Dati Tecnici
Technical Data

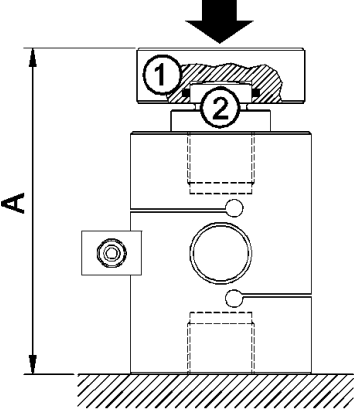
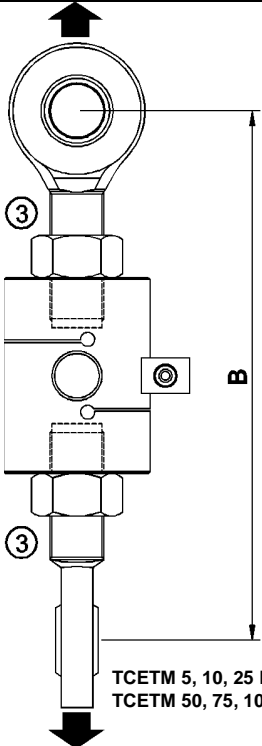

| Classe di precisione: ISO 376 | Accuracy class: ISO 376 | 00 | 0.5 | 1 |
|---|--|--------------------------------|--------------------------------|--------------------------|
| CARICO NOMINALE | NOMINAL LOAD | 5 - 10 - 25 - 50 - 75 - 100 kN | | |
| ERRORI RELATIVI (al valore letto) | RELATIVE ERRORS (at reading) | | | |
| a) ripetibilità 0°-120°-240° (b) | a) repeatability 0°-120°-240° (b) | ≤ ±0.050% ⁽¹⁾ | ≤ ±0.085% ⁽¹⁾ | ≤ ±0.150% ⁽¹⁾ |
| b) interpolazione (fc) | b) interpolation (fc) | ≤ ±0.020% ⁽¹⁾ | ≤ ±0.040% ⁽¹⁾ | ≤ ±0.055% ⁽¹⁾ |
| c) reversibilità (u) | c) reversivity (u) | ≤ ±0.070% ⁽¹⁾ | ≤ ±0.135% ⁽¹⁾ | ≤ ±0.250% ⁽¹⁾ |
| d) zero (fo) | d) zero (fo) | ≤ ±0.010% F.S. | ≤ ±0.020% F.S. | ≤ ±0.020% F.S. |
| LINEARITA' / ISTERESI | LINEARITY / HYSTERESIS | | ≤ ±0.03% F.S. | |
| EFFETTO DELLA TEMPERATURA (10°C) | TEMPERATURE EFFECT (10°C) | | ≤ ±0.030% F.S. | |
| a) sullo zero | a) on zero | | ≤ ±0.011% F.S. | |
| b) sulla sensibilità | b) on sensitivity | | ≤ ±0.011% F.S. | |
| SENSIBILITA' / TOLLERANZA DI CALIBRAZIONE | NOMINAL SENSITIVITY / SENSIVITY TOLERANCE | | 2 mV/V | |
| RESISTENZA DI INGRESSO | INPUT RESISTANCE | | 420 ± 20Ω | |
| RESISTENZA DI USCITA | OUTPUT RESISTANCE | | 352 ± 2Ω | |
| RESISTENZA DI ISOLAMENTO | INSULATION RESISTANCE | | > 5 GΩ | |
| BILANCIAMENTO DI ZERO | ZERO BALANCE | | ≤ ± 1% F.S. | |
| ALIMENTAZIONE DI RIFERIMENTO | RECOMENDED SUPPLY VOLTAGE | | 10 V | |
| ALIMENTAZIONE NOMINALE | NOMINAL SUPPLY VOLTAGE | | 1-15 V | |
| ALIMENTAZIONE MAX. | MAXIMUM SUPPLY VOLTAGE | | 18 V | |
| VALORI MECCANICI LIMITE RIFERITI AL CARICO NOMINALE : | MECHANICAL LIMIT VALUES REFERRED TO NOMINAL LOAD : | | | |
| a) carico di servizio | a) service load | | 120% | |
| b) carico limite | b) max permissible load | | 150% | |
| c) carico di rottura | c) breaking load | | > 300% | |
| d) massimo carico trasversale | d) max transverse load | | 50% | |
| e) carico dinamico limite | e) max permissible dynamic load | | 50% | |
| FRECCIA MAX. AL CARICO NOMINALE | DISPLACEMENT AT NOMINAL LOAD | | ~ 0.3 mm | |
| TEMPERATURA DI RIFERIMENTO | REFERENCE TEMPERATURE | | +23°C | |
| CAMPO NOMINALE DI TEMPERATURA | TEMPERATURE NOMINAL RANGE | | -10 / +40 °C | |
| TEMPERATURA DI ESERCIZIO | SERVICE TEMPERATURE | | -10 / +70 °C | |
| TEMPERATURA DI STOCCAGGIO | STORAGE TEMPERATURE | | -20 / +80 °C | |
| PESO | WEIGHT | | 1.51 - 4.45 kg | |
| CLASSE DI PROTEZIONE (EN 60529) | PROTECTION CLASS (EN 60529) | | IP67 | |
| MATERIALE DINAMOMETRO | EXECUTION MATERIAL | | Acciaio Inox / Stainless Steel | |
| LUNGHEZZA CAVO | CABLE LENGTH | | 5 m | |
| TESTE A SNODO SFERICO CONSIGLIATE | RECOMMENDED KUNCKLE JOINTS | | DURBAL EM20 - EM30 | |

⁽¹⁾ Errori percentuali calcolati al valore letto, min. 1/10 del carico nominale / Percentual errors referred to reading, min. 1/10 of nominal load.

A richiesta classificazioni secondo ASTM E74 / Classifications according ASTM E74 on request.

Applicazioni

Applications

| COMPRESSIONE <i>COMPRESSION</i> | TRAZIONE <i>TENSION</i> |
|---|--|
|  <p>TCETM 5, 10, 25 kN A = 117mm TCETM 50, 75, 100 kN A = 149 mm</p> |  <p>TCETM 5, 10, 25 kN B = ~200mm TCETM 50, 75, 100 kN B = ~300mm</p> |

ATTENZIONE:



Il peso del cavo può influire sulla misura, è pertanto consigliabile posizionarlo nella zona fissa (dalla parte opposta al carico).

WARNING:



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

Accessori Accessories

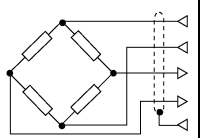
A

| | CODE: | | ACCESSORIES (optionals): | ACCESSORI (opzionali): |
|-----------------------|----------|---|--------------------------|--------------------------|
| TCETM: 5, 10, 25 kN | CTIC22 | ① | Loading head. | Testa di carico |
| | CTS25M20 | ② | Spherical loading head. | Testa di carico sferica. |
| | CACCEM20 | ③ | Knuckle joints. | Teste a snodo sferico |
| TCETM: 50, 75, 100 kN | CTIC28 | ① | Loading head. | Testa di carico |
| | CTS45M30 | ② | Spherical loading head. | Testa di carico sferica. |
| | CACCEM30 | ③ | Knuckle joints. | Teste a snodo sferico |

Collegamenti Elettrici Electrical Connections

Cavo schermato PVC 105°C, Ø 5.2 mm a 4 conduttori Ø 0.35mm² stagnati.

PVC 105°C shielded cable, Ø 5.2 mm with 4 tinned Ø 0.35mm² conductors.

| Dynamometer | OUTPUT | CABLE | CAVO | MIL7M (optional) | DB9M (optional) | M12 (optional) |
|---|--------------|---------|----------|---------------------|--------------------|-------------------|
|  | EXCITATION+ | Red | Rosso | C | 3 | 1 |
| | EXCITATION - | Black | Nero | B | 4 | 3 |
| | OUTPUT+ | White | Bianco | A | 1 | 2 |
| | OUTPUT- | Yellow | Giallo | D | 2 | 4 |
| | ----- | Shield* | Schermo* | E | 5 | 5 |

* Collegato al corpo del dinamometro. / Connected to the dynamometer body.

AEP transducers

Dasa-Rägister
EN ISO 9001:2008
IQ-1100-01

ACCREDIA
ENTE ITALIANO DI ACCREDITAMENTO
LAT N° 093
Calibration Centre
The products are NOT covered by accreditation

ATEX 
Production Quality Assurance Certified n°
TÜV 06 ATEX 553793 Q

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In order to improve the technical performances of the product, the company reserves the right to make any change without notice.