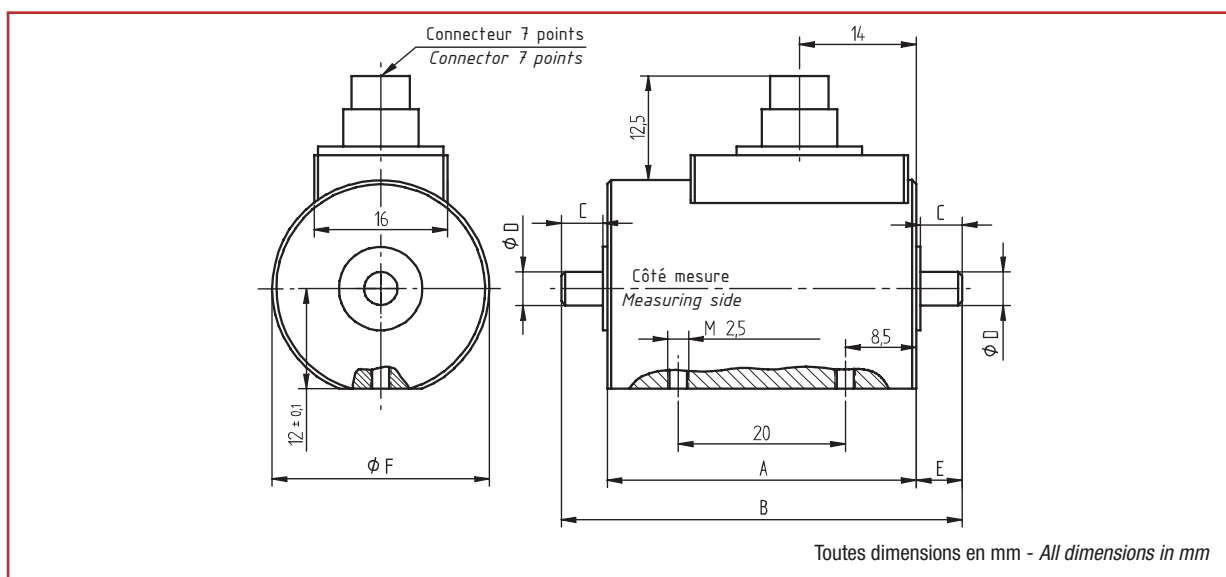


**0.005 Nm ... 20 000 Nm**



- Couplemètre non rotatif
- Axe lisse des 2 côtés
- Très larges étendues de mesure
- Grande précision
- Grande capacité de surcharge
- *Non rotating torquemeter*
- *Shaft without keyway*
- *Very large range*
- *High accuracy*
- *High overload*

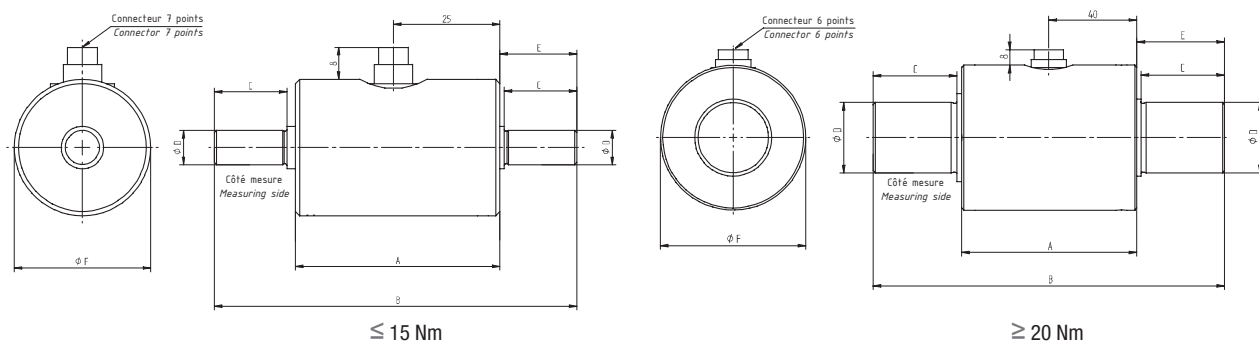


| Couple Nominal<br>(C.N.)<br>Nominal Torque<br>[Nm] | Dimensions<br>Dimensions<br>[mm] |    |   |      |     |    |
|----------------------------------------------------|----------------------------------|----|---|------|-----|----|
|                                                    | A                                | B  | C | ØD   | E   | ØF |
| 0.005, 0.1, 0.02                                   | 37                               | 48 | 5 | 4 g6 | 5.5 | 26 |

# D2452

0.005 Nm ... 20 000 Nm

## Capteurs de Couple - Non rotatif Non rotating Torque Sensor

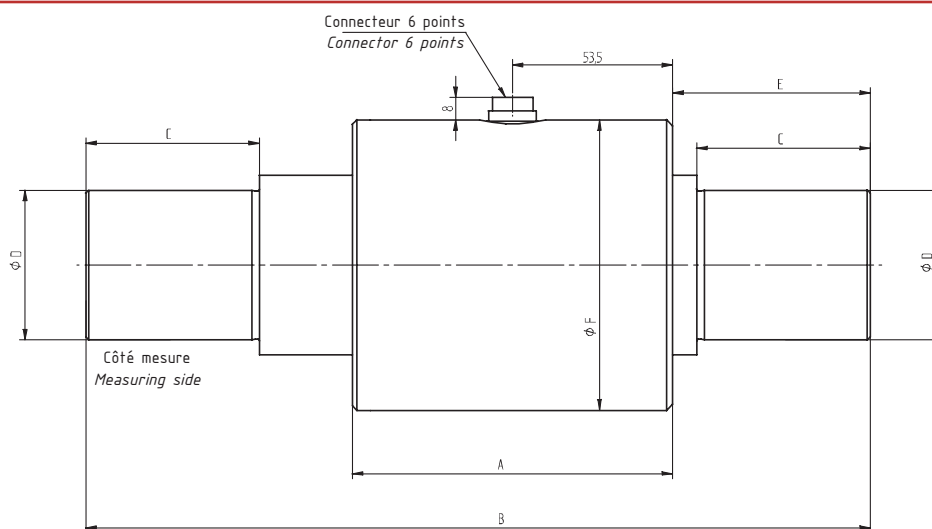


Toutes dimensions en mm - All dimensions in mm

**Couple Nominal  
(C.N.)**  
Nominal Torque

**Dimensions**  
Dimensions  
[mm]

| [Nm]                           | A    | B     | C  | ØD    | E  | ØF |
|--------------------------------|------|-------|----|-------|----|----|
| 0.03, 0.05                     | 48   | 65    | 7  | 6 g6  | 8  | 32 |
| 0.1, 0.2, 0.3, 0.5,<br>1, 2, 5 | 48   | 85    | 17 | 8 g6  | 18 | 32 |
| 10, 15                         | 48   | 85    | 17 | 10 g6 | 18 | 32 |
| 20, 30                         | 73   | 111.5 | 18 | 18 h6 | 19 | 51 |
| 50, 100                        | 73   | 147.5 | 36 | 18 h6 | 37 | 51 |
| 200, 500                       | 79.5 | 159.5 | 38 | 32 h6 | 40 | 66 |



Toutes dimensions en mm - All dimensions in mm

**Couple Nominal  
(C.N.)**  
Nominal Torque

**Dimensions**  
Dimensions  
[mm]

| [Nm]           | A   | B   | C   | ØD     | E   | ØF  |
|----------------|-----|-----|-----|--------|-----|-----|
| 1 000          | 107 | 262 | 58  | 50 h7  | 66  | 97  |
| 2 000, 5 000   | 135 | 377 | 110 | 70 h7  | 126 | 112 |
| 10 000, 20 000 | 140 | 470 | 120 | 110 h7 | 160 | 173 |

## Caractéristiques Techniques - Technical specifications

| Couple Nominal<br>(C.N.)<br><i>Nominal Torque</i> | Sensibilité<br><i>Sensitivity</i> | Raideur<br><i>Springrate</i> | Couple de travail<br>admissible<br><i>Service torque</i> | Couple ultime<br>avant rupture<br><i>Ultimate torque</i> | Couple<br>dynamique max.<br><i>Max. dynamic load</i> |
|---------------------------------------------------|-----------------------------------|------------------------------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|
| [Nm]                                              | [mV/V]                            | [Nm/rad]                     | [% C.N.]                                                 | [% C.N.]                                                 | [% C.N.]                                             |
| 0.005                                             | 0.5                               | $4.6 \times 10^{-1}$         | 200                                                      | 500                                                      | 80                                                   |
| 0.01                                              | 0.5                               | $4.6 \times 10^{-1}$         | 200                                                      | 500                                                      | 80                                                   |
| 0.02                                              | 0.5                               | 3.6                          | 200                                                      | 500                                                      | 80                                                   |
| 0.03                                              | 0.5                               | 3.7                          | 200                                                      | 500                                                      | 80                                                   |
| 0.05                                              | 0.5                               | 3.7                          | 200                                                      | 500                                                      | 80                                                   |
| 0.1                                               | 0.8                               | $1.8 \times 10^1$            | 200                                                      | 500                                                      | 80                                                   |
| 0.2                                               | 0.8                               | $1.8 \times 10^1$            | 150                                                      | 300                                                      | 70                                                   |
| 0.3                                               | 0.8                               | $1.8 \times 10^1$            | 150                                                      | 300                                                      | 70                                                   |
| 0.5                                               | 0.8                               | $1.2 \times 10^2$            | 150                                                      | 300                                                      | 70                                                   |
| 1                                                 | 0.8                               | $1.2 \times 10^2$            | 150                                                      | 300                                                      | 70                                                   |
| 2                                                 | 0.8                               | $3.6 \times 10^2$            | 150                                                      | 300                                                      | 70                                                   |
| 5                                                 | 0.8                               | $6.5 \times 10^2$            | 150                                                      | 300                                                      | 70                                                   |
| 10                                                | 0.8                               | $9.3 \times 10^2$            | 150                                                      | 300                                                      | 70                                                   |
| 15                                                | 0.8                               | $9.3 \times 10^2$            | 150                                                      | 300                                                      | 70                                                   |
| 20                                                | 0.8                               | $4.5 \times 10^3$            | 150                                                      | 300                                                      | 70                                                   |
| 30                                                | 0.8                               | $4.5 \times 10^3$            | 150                                                      | 300                                                      | 70                                                   |
| 50                                                | 0.8                               | $8.5 \times 10^3$            | 150                                                      | 300                                                      | 70                                                   |
| 100                                               | 0.8                               | $9.7 \times 10^3$            | 150                                                      | 300                                                      | 70                                                   |
| 200                                               | 0.8                               | $6.6 \times 10^4$            | 150                                                      | 300                                                      | 70                                                   |
| 500                                               | 0.8                               | $7.8 \times 10^4$            | 150                                                      | 300                                                      | 70                                                   |
| 1 000                                             | 0.8                               | $3.1 \times 10^5$            | 150                                                      | 300                                                      | 70                                                   |
| 2 000                                             | 0.8                               | $7.2 \times 10^5$            | 150                                                      | 300                                                      | 70                                                   |
| 5 000                                             | 0.8                               | $8.0 \times 10^5$            | 150                                                      | 300                                                      | 70                                                   |
| 10 000                                            | 1.5                               | $3.1 \times 10^6$            | 130                                                      | 200                                                      | 70                                                   |
| 20 000                                            | 1.5                               | $3.7 \times 10^6$            | 130                                                      | 200                                                      | 70                                                   |

## Connexion électrique - Electric Connection

| Connecteur<br>6 contacts - 6 pins | Connecteur<br>7 contacts - 7 pins | Fonction - Function          |                              |
|-----------------------------------|-----------------------------------|------------------------------|------------------------------|
| 1                                 | 1                                 | - alim.                      | - excit.                     |
| 2                                 | 2                                 | + alim.                      | + excit.                     |
| 3                                 | 3                                 | blindage                     | shield                       |
| 4                                 | 4                                 | + signal                     | + signal                     |
| 5                                 | 5                                 | - signal                     | - signal                     |
| 6                                 | 6                                 | Cran de calibration (option) | Calibration control (option) |
| -                                 | 7                                 | NC                           | NC                           |

**D2452**

0.005 Nm ... 20 000 Nm

## Capteurs de Couple - Non rotatif

### Non rotating Torque Sensor

## Caractéristiques - Specifications

| MÉCANIQUES                          |                           | MECHANICAL                                                              |        |
|-------------------------------------|---------------------------|-------------------------------------------------------------------------|--------|
| Couple Nominal (C.N.)               | Nominal Torque (C.N.)     | Voir page - See page 3                                                  | Nm     |
| Couple de travail admissible        | Service torque**          | Voir page - See page 3                                                  | % C.N. |
| Couple ultime avant rupture         | Ultimate torque           | Voir page - See page 3                                                  | % C.N. |
| Angle de torsion à C.N.             | Twist angle at C.N.       | ≤ 0.2                                                                   | °      |
| PRÉCISIONS                          |                           | ACCURACY                                                                |        |
| Classe de précision                 | Accuracy class            | ± 0.1                                                                   | % C.N. |
| Répétabilité                        | Repeatability             | ± 0.05                                                                  | % C.N. |
| ÉLECTRIQUES                         |                           | ELECTRICAL                                                              |        |
| Tension d'alimentation              | Supply voltage            | 2 ... 12                                                                | Vcc    |
| Signal de sortie                    | Output signal             | Voir page - See page 3                                                  | mV/V   |
| Résistance du pont                  | Bridge resistance         | 1 000                                                                   | Ohm    |
| Principe de connexion               | Connection type           | Connecteur / connector<br>(fiche mobile fournie - mating plug provided) |        |
| GÉNÉRALES                           |                           | GENERAL                                                                 |        |
| Plage de température compensée      | Nominal temperature range | -5 ... +45                                                              | °C     |
| Plage de température opérationnelle | Service temperature range | -15 ... +55                                                             | °C     |

## Options - Options

|                     |                     |     |        |
|---------------------|---------------------|-----|--------|
| Cran de calibration | Calibration control | 100 | % C.N. |
|                     |                     |     |        |
|                     |                     |     |        |

## Accessoires - Accessories



Accouplement



GM80-PA



PAX-S



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