

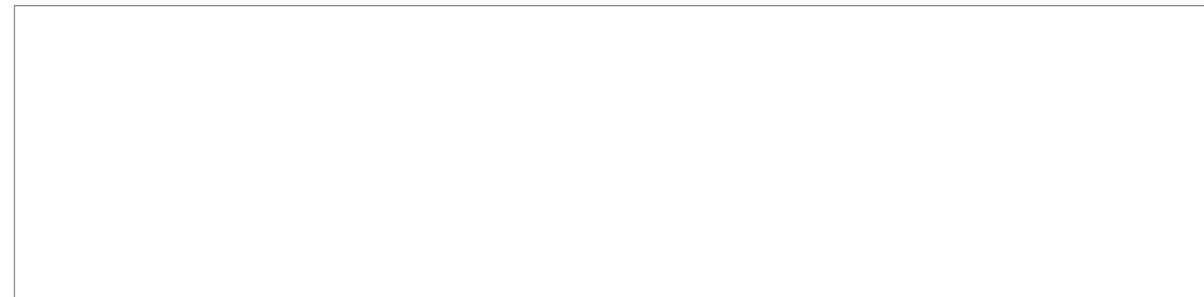
Torque Sensor TA125

Nominal torque: ± 15 Nm ± 50 Nm, ± 120 Nm, ± 350 Nm, ± 600 Nm

The torque sensor TA125 is suitable for measuring the reaction torque up to a nominal torque of 600Nm (corded, non-rotating).

The torque sensor TA125 is used to monitor torques in quality assurance.

Dimensions



| inch | L in mm | D1 in mm | D2 in mm | nominal torque |
|------|---------|----------|----------|----------------|
| 1/4 | 101,5 | 8 | 12 | 15 Nm |
| 3/8 | 126 | 12,5 | 18 | 50 Nm |
| 1/2 | 123 | 17 | 23 | 120 Nm |
| 3/4 | 200 | 25 | 36 | 350 Nm |
| 1 | 200 | 33 | 43 | 600 Nm |

Technical Data

| Measurement / Material | | |
|--|-----------|-----------------------|
| Design | | Torque Sensor |
| Material | | stainless steel |
| Mechanical Data | | |
| Nominal torque (FS) | Nm | 15; 50; 120; 350; 600 |
| Operation torque | %FS | 150 |
| Break torque | %FS | 400 |
| Torsional angle by nominal torque (FS) | °/FS | 0,7 |
| Electrical Data | | |
| Nominal output 1) | mV/V @ FS | 2,00 |
| Zero balance | mV/V | < 0,05 |
| max. supply voltage | V | 10 |
| Input resistance | Ohm | 350±5 |
| Output resistance | Ohm | 350±5 |
| Insulation resistance | Ohm | >5x 10 ⁹ |
| Connection 4 conductor open | m | 3 |
| Accuracy | | |
| Nominal output 2) | % | 1 |
| rel. linearity deviation | %FS | <0,1 |
| rel. reversal error 2) | %FS | <0,1 |
| Temperature coefficient of the zero signal | %FS/K | <0,01 |
| Temperature coefficient of the parameter | %RD/K | <0,01 |
| Creep Error (30 min) | %FS | ≤ 0,05 |
| Temperature | | |
| Nominal temperature range | °C | -10 ... +60 |
| Working temperature range | °C | -10 ... +85 |
| Storage temperature range | °C | -10 ... +85 |

Abbreviation : RD: „Reading“; FS: „Full Scale“;

1) The exact nominal sensitivity is indicated in the test report;

Pin Configuration

| | | |
|--------|------------------------|-------------|
| +Us | positive bridge supply | brown |
| -Us | negative bridge supply | white |
| +UD | positive bridge output | green |
| -UD | negative bridge output | yellow |
| Shield | | transparent |

Pressure load : positive output signal

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