

Torque transducer, type 0701

For measuring torques on non-rotating axes

BROSA torque transducers are flange-mounted devices that use the same measuring principle as our proven BROSA load pins. They allow for the measurement of torque on non-rotating axes. By taking into account the exact mounting situation from the design to the calibration of the sensors, high measurement accuracy is ensured over the long term.

Applications

- Drives
- Brakes
- Mechanical engineering
- Reaction torque measurement
- Test bench applications

Features

- Customized design
- Compact design
- Integrated amplifier
- High overload capacity
- High fatigue strength (verification on request)
- Temperature compensated
- High EMC resistance



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Technical data

Accuracy	≤ 1,5 % FS
Measuring range	500 Nm to 5000 Nm
Measuring direction	± Direction or cw / ccw
Limit load	≥ 150 %, optional 300 %
Breaking load	≥ 300 %, optional 500 %
Linearity error	≤ 1,5 % FS
Hysteresis	≤ 1,5 % FS
Reproducibility	≤ 0,1 % FS
Temperature range	-40 to +80 °C
Temperature coefficient	≤ 0,0035 % / °K
Supply voltage	9 to 36 VDC
Output signal	4 to 20 mA, optional redundant CANopen, optional Safety PROFINET, optional PROFIsafe IO-Link, optional redundant PL c
Degree of protection	IP 67, optional IP 69, according to DIN EN 60529
Interference immunity	Up to 200 V/m HF, 100 mA BCI according to ISO 11452, DIN EN 61000-4, ISO 7637
Interference emission	DIN EN 55025
Climatic tests	DIN EN 60068-2
Vibration resistance	DIN EN 60068-2
Electrical connections	M12x1, 5-pole
Electrical protection	Reverse polarity, overvoltage and short-circuit protection
Material	Stainless steel

Options

Safety classification according to DIN EN ISO 13849-1	PL c, PL d (PL e*)
Explosion protection	ATEX Ex i
Ex classification	II 2G Ex ib IIC T4 Gb / IECEx Ex ib IIC T4 Gb
Passive Design	Output ~ 1 mV / V

Other requirements can be implemented by agreement.

*When used in higher-level systems according to DIN EN ISO 13849-1



ISO 9001
ISO 14001



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