

Rod end load cell, type 0110

For the exact measurement of tensile and compressive forces

BROSA rod end load cells have a compact design and will withstand even extreme loads thanks to the use of high-strength stainless steel. Thanks to the designs with inner and outer thread for tensile and compressive forces as well as suitable rod ends, the sensor can be used for many different applications. Thanks to the proven and tested strain-gauge technology and fully developed amplifiers providing reliable and exact measurement results, BROSA rod end load cells can be permanently used under the most extreme environmental conditions.

Applications

- Torque support
- Boom pendants
- Test rigs

Features

- Customer-specific design
- Integrated amplifier
- High overload capacity
- Designed for endurance strength
- Temperature compensated
- High EMC resistance



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Technical data

Accuracy	≤ 0.3 % FS
Measurement range	10 kN to 1500 kN
Maximum load	≥ 150 %, optional 300 %
Breaking load	≥ 300 %, optional 500 %
Linearity error	≤ 0.3 % FS
Hysteresis	≤ 0.3 % 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
Protection class	IP 67, optional IP 69K, 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
Emission	DIN EN 55025
Climatic tests	DIN EN 60068-2
Vibration resistance	DIN EN 60068-2
Electrical connections	M12x1, 5-pins
Electrical protection classes	Reverse polarity protection, overvoltage protection and short-circuit protection
Material	Stainless steel

Options

Safety classification according to DIN EN ISO 13849-1	PL c, PL d (PI e)
Explosion protection	ATEX Ex i
Passive design	Output ~ 1 mV / V



ISO 9001:2008
ISO 14001:2004



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