

# Support jack load cell, type 0106

For the exact measurement of supporting forces

BROSA support jack load cells reliably monitor the forces acting on stabiliser cylinders. Thanks to the special design of the sensors they are extremely unsusceptible against angular force transfers and shear forces. This allows for the precise measurement of the axial force at each individual supporting point, even in case of uneven or inclined surfaces. The support jack load cells ensure the optimum stabilisation of emergency vehicles or mobile machines at all times. Thanks to the robust design with high-quality materials the sensors are ideally suited for permanent operation.

## Applications

- Mobile cranes
- Fire trucks
- Concrete pumps

## Features

- Customer-specific design
- Unsusceptible against angular force transfer
- Integrated amplifier
- High overload capacity
- Designed for endurance strength
- Temperature compensated
- High EMC resistance



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## Technical data

Accuracy	≤ 1.0 % FS
Measurement range	100 kN to 1500 kN
Maximum load	≥ 150 %, optional 300 %
Breaking load	≥ 300 %, optional 500 %
Linearity error	≤ 1.0 % FS
Hysteresis	≤ 1.0 % 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
Climate tests	DIN EN 60068-2
Vibration resistance	DIN EN 60068-2
Electrical connections	M12x1, 4-pins
Electrical protection classes	Reverse polarity protection, overvoltage protection and short-circuit protection
Material	Stainless steel

## Options

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



ISO 9001:2008  
ISO 14001:2004



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