

# Force Sensor – for measurement of force and load

- precise measurement of induced loads and force
- customized compensation and characterization
- elimination of temperature effects and errors
- many different output signal configurations available
- mechanical customization for specific requirements possible



## Specification

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### Pressure ranges

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Measurement ranges: 0 ... 200 N, 0 ... 500 N  
Over pressure: typical 2x of nominal range

### Output signals:

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Analogue signals: 4-20mA current loop, 0-10V at min. 12V supply, ratiometric  
Digital signals: CANopen, J1939, I2C

### General technical data

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Response time: typical 1ms  
Accuracy:  $\pm 2\%$  FSO at +25°C,  $\pm 4\%$  FSO at -20 ... +60°C  
Temperature range: compensated -20 ... +60°C  
Resistance to vibration: 20 g, 10~2000Hz acc. IEC 60068-2-6:2007  
Resistance to shock: 50 g, 3 x each direction acc. IEC 60068-2-27:2008  
Protection rating: Up to IP69K  
Wetted parts material: Titan