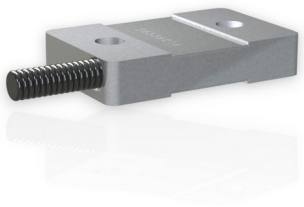
# Strain Sensor DA70 PUR

Item number: 568



## Highlights

- Connection cable is optionally designed as a PUR cable or protected with an additional corrugated conduit
- galvanized

The strain sensor DA70 is suitable for strain and force measurement on machine elements under rough conditions. Installation is done quite simply by screwing the sensor with 2 screws M10 on an even material surface.
The connection cable is protected by a non-crushable spiral tube. The areas of application are, for example, force monitoring in agricultural and construction machinery, fill level measurement and strain data acquisition on machine elements. The temperature behavior and conversion factor depend on the geometrical and material pairing of sensor and component. The sensor is calibrated by subjecting the component to a known force.

The Strain sensor DA70e is implemented for the measurement of loads. Application areas are machines, buildings, vehicules, containers and silos. The strain on the surface of the constructional element is measured by the strain sensor due to the bolted-assembly.
The DA 70 is also available with integrated evaluation electronics.

## Optional special version

- Protection class IP68: from rated force 200 N
- Temperature range -40°C to 180°C
- Pressure range up to 8 bar

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Stand: 27.08.2026

# Technical Data

| Basic Data | | Unit |
|---|---|---|
| Type | Dehnungsaufnehmer | |
| Nominal strain | 300 | µm/m |
| Operating strain | 150 | %FS |
| Fastening | schrauben (M10) | |
| Material | tool steel | |
| Surface | electrogalvanized | |
| Dimensions | 78 x 40 x 17 mm³ | |

| Electrical Data | | Unit |
|---|---|---|
| Input resistance | 350 | Ohm |
| Tolerance input resistance | 50 | Ohm |
| Output resistance | 350 | Ohm |
| Tolerance output resistance | 50 | Ohm |
| Insulation resistance | 5 | GOhm |
| Rated range of excitation voltage from | 2.5 | V |
| Rated range of excitation voltage to | 5 | V |
| Operating range of excitation voltage from | 1 | V |
| Operating range of excitation voltage to | 10 | V |

| Accuracy Data | | Unit |
|---|---|---|
| Relative linearity error | 1 | %FS |
| Relative zero signal hysteresis | 1 | %FS |
| Temperature effect on zero signal | 0.5 | %FS/10K |
| Temperature effect on characteristic value | 1 | %RD/10K |
| Relative creep | 1 | %FS |

Strain gauge is used with k-factor = 2.

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## Pin assignment

| Channel | Symbol | Description | Wire color | PIN |
|---|---|---|---|---|
| | +Us | positive bridge supply | brown | |
| | -Us | negative bridge supply | white | |
| | +Ud | positive bridge output | green | |
| | -Ud | negative bridge output | yellow | |

Screen - transparent.  Pressure load: positive output signal

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