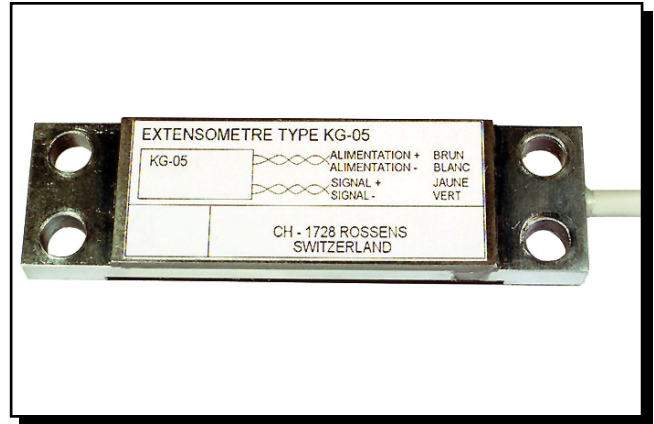

KG-05

Extensometer

FEATURES

- Strain transducer, impedance 1000 Ω
- Temperature-compensated
- IP 66 protection class
- Compact dimensions
- Robust design
- Very flat construction
- Easy mounting on machined flat surface
- Maintenance-free



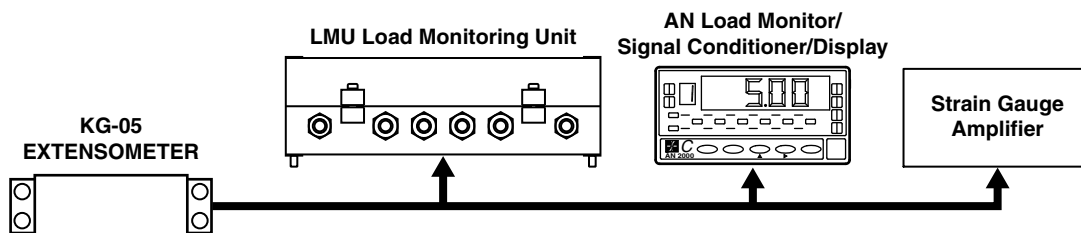
DESCRIPTION

The Magtrol KG-05 Extensometer is designed for measuring deformations of construction or machined parts under load. Because its output signal is proportional to the applied load, it can be used as either a load cell or a force transducer.

APPLICATIONS

The KG-05 Extensometer is ideal for strain measuring where large transducers are not suitable. Its small dimensions and flat mounting allow for easy control of deformations on steel structures.

SYSTEM CONFIGURATION OPTIONS

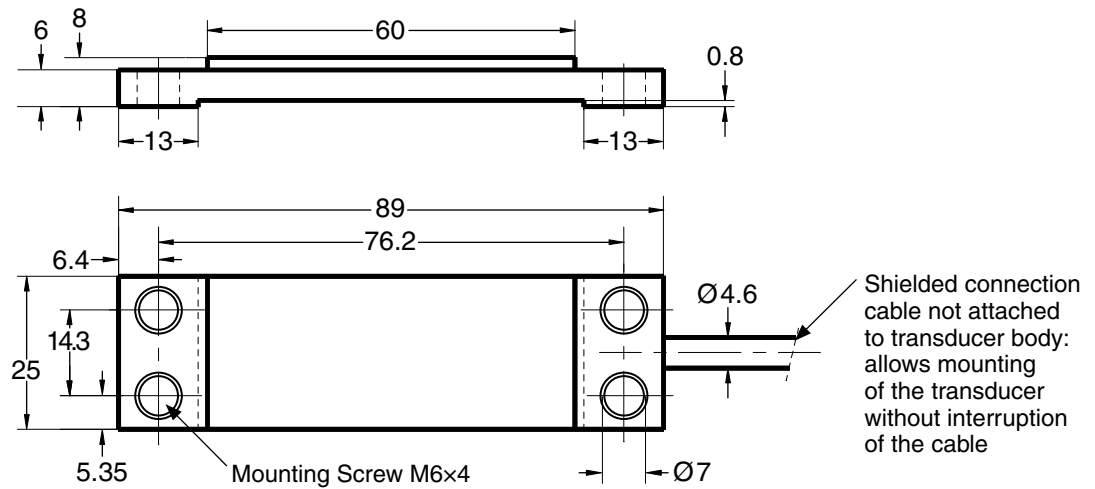


TECHNICAL RATINGS

| MECHANICAL CHARACTERISTICS | |
|---|--|
| Maximal Usable Load | 1.5 × nominal load |
| ELECTRICAL CHARACTERISTICS | |
| Nominal Traction and Compression Deformation (ϵ) | $\pm 600 \cdot 10^{-6}$ |
| • Dynamic (long-term) | Double amplitude $\leq 400 \cdot 10^{-6}$ within static limits |
| Nominal Sensitivity (at $\epsilon = 600 \cdot 10^{-6}$) | 1.5 mV/V * |
| Input Impedance | 990 Ω to 1200 Ω |
| Output Impedance | 1000 $\pm 10 \Omega$ |
| ENVIRONMENTAL CHARACTERISTICS | |
| Temperature Compensation | For steel with $\alpha = 11 \cdot 10^{-6}$ as standard ** |
| Compensated Temperature | -10 °C to +40 °C |
| Operating Temperature | -30 °C to +70 °C |
| Protection Class | IP 66 |
| CONNECTION CABLE | |
| Shielded Cable Length | 3 m (Other cable lengths available upon request.) |
| Pin Connections: | Color Code (according to DIN): |
| supply (+) | brown |
| supply (-) | white |
| signal (+) | yellow |
| signal (-) | green |

* Units calibrated with tolerance of $\pm 2\%$ upon request. ** Adaptable for other metals upon request.

DIMENSIONS



Due to the continual development of our products, we reserve the right to modify specifications without forewarning.



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