



# A Series

For transducer manufacturers

## Special features

- Highly robust standard strain gauge for easy handling
- Many options and designs available

Data sheet

## Specifications

<b>SG construction</b>	Foil strain gauge
<b>Carrier</b>	PEEKF (40 ±5) µm
<b>Grid foil</b>	Constantan (3.8 or 5 µm, depend on type)
<b>Encapsulation</b>	PEEKF (40 ±5) µm
<b>Connections</b>	Integrated solder pads or nickel-plated copper leads
<b>Resistance</b>	175 ... 2,000 Ohm (depended on design)
<b>Resistance tolerance</b>	±0.3% (without leads) ±0.35% (with leads)
<b>Gage factor</b>	Approx. 2
<b>Gage factor tolerance</b>	±1.5% for grid length <1.5 mm ±1% for grid length ≥1.5 mm
<b>Reference temperature</b>	23 °C
<b>Operating temperature range static</b>	-40 °C ... 140 °C
<b>Operating temperature range dynamic</b>	-70 °C ... 200 °C
<b>Temperature response</b> α for ferritic steel (1) α for aluminum (3)	10.8 ppm/K (6.0 ppm/°F) 23 ppm/K (12.8 ppm/°F)
<b>Temperature response tolerance</b>	± 0.3 ppm/K
<b>Fatigue life<sup>1)</sup></b>	>10 <sup>7</sup> cycles at 1,200 µm/m
<b>Maximum elongation</b> Positive direction Negative direction	50.000 µm/m (5%) 50.000 µm/m (5%)
<b>Min. bending radius</b>	0,5 mm 5 mm (for leads at the solder pads)
<b>Recommended adhesive</b>	P250 or EP310N
<b>Option "Stick-On"</b>	Pre-coated adhesive layer on request (P250)

<sup>1)</sup> Maximum zero point drift ±30 µm/m

Subject to modifications.  
All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

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B05397\_02\_E00\_00 21.12.2020 HBM: public