

Strain Sensor DA120



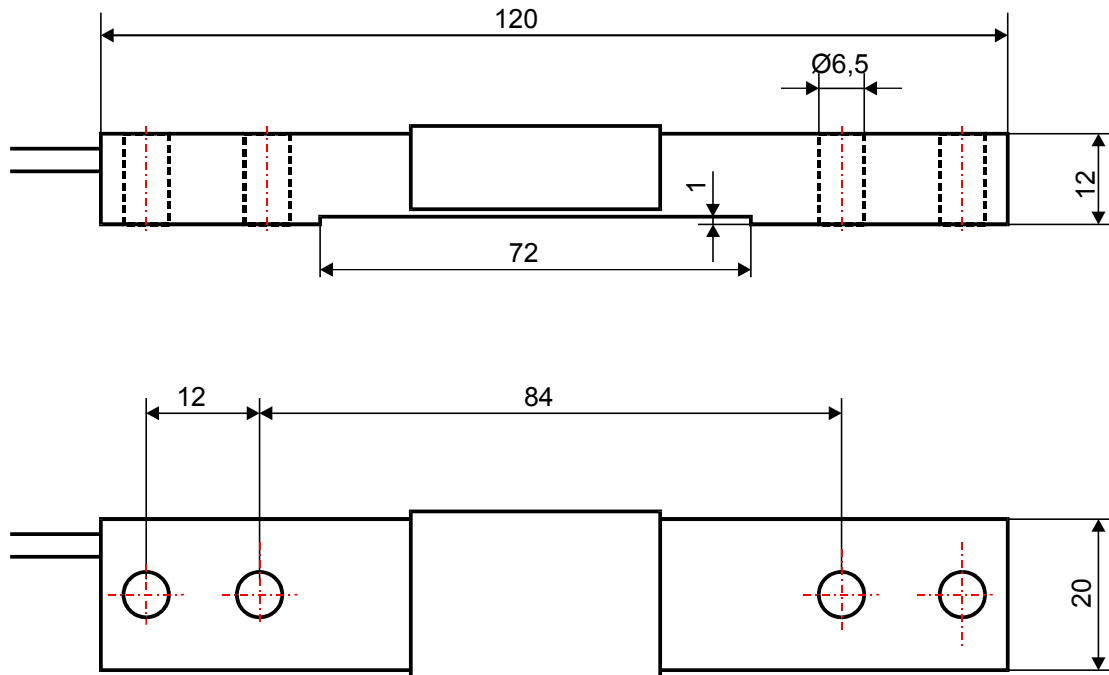
The strain sensor DA120 is suitable for the measurement of strain and force on machine elements and components. It is built as a closed construction and thus can be used under rough environmental conditions. The installation is simple, the sensor merely has to be screwed on with 4 M6 screws.

Areas of application are e.g. force monitoring, fill level measurement and strain recording of components. Signal, temperature behavior and conversion factor depend on geometrical and material pairing. Calibration is therefore carried out by subjecting the component to a known force.

Technical Data

Strain sensor	tension / compression	
Construction	closed	
Length x width x height	120 x 20 x 11	mm x mm x mm
Fastening	4 × Ø6.5	mm
Material	Ck45 nickel-plated	
Nominal measurement range	±1000	µm/m
Accuracy class	0.2	
Conversion factor	≈ 4	
Therm. expansion coefficient	≈ 13 · 10 ⁻⁶	1/K
Zero signal drift	according to material pairing	
Input resistance	350 ± 1	Ohm
Output resistance	350 ± 1	Ohm
Insulation resistance	> 5 · 10 ⁹	Ohm
Supply voltage	2.5...12	V
Connection 4 conductor	5	m

Dimensions



Pin Configuration

+U _s	positive bridge supply	brown	
-U _s	negative bridge supply	white	shield: transparent
+U _D	positive bridge output	green	
-U _D	negative bridge output	yellow	