

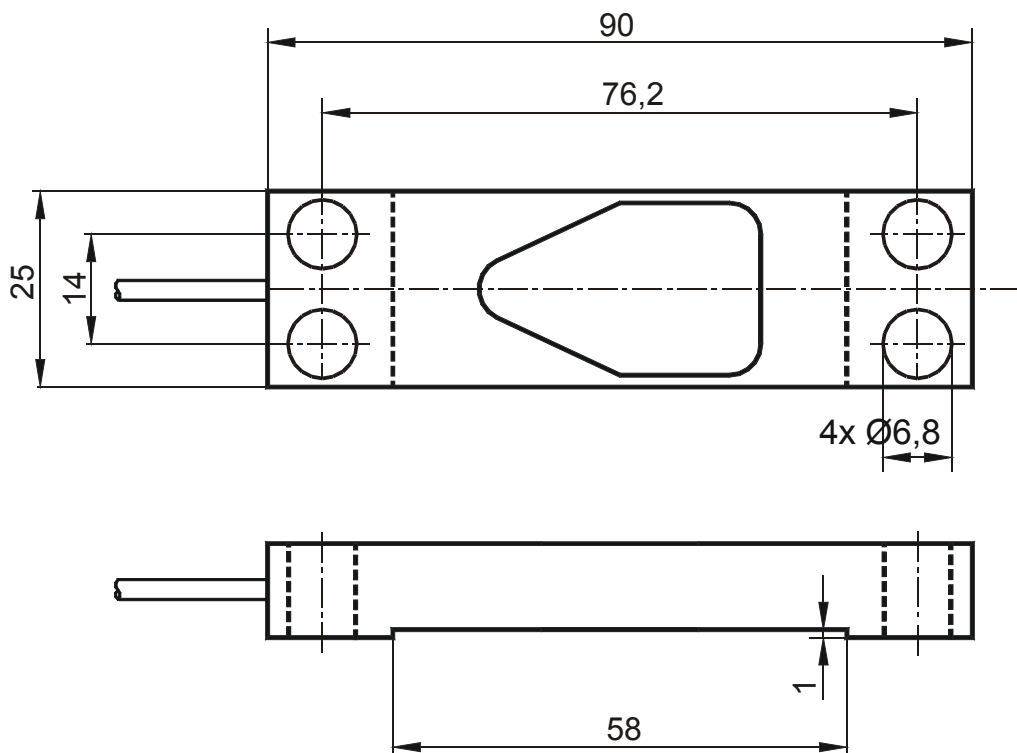
## Strain Sensor DA90

The strain sensor DA90 is suitable for strain and force measurement on machine elements and components in rough conditions due to its closed construction of stainless steel.

Installation is done quite simply by screwing the sensor with 4 screws M6.

Areas of application are e.g. force monitoring, level measurement and strain data acquisition on steel components.

Output signal, temperature behavior and conversion factor are dependent on geometrical and material pairing of sensor and component. The sensor is calibrated by subjecting the component to a known force.



## Technical Data

Strain sensor	strain / compression	
Construction	closed	
Length × Width × Height	90 × 25 × 11	mm × mm × mm
Fastening	4 × Ø6.8	mm
Material	stainless steel	
Measurement range	±1000	µm/m
Output signal	±2 mV/V at ±1000 µm/m	
Accuracy class	0.2	
Conversion factor	≈ 1.5	
Therm. coefficient of expansion	≈ 16 · 10 <sup>-6</sup>	1/K
Zero signal drift	according to material pairing	
Input resistance	350 ±1	Ohm
Output resistance	350 ±1	Ohm
Insulation resistance	> 5 · 10 <sup>9</sup>	Ohm
Supply voltage	2.5...18	V
Connection, 4-conductor	5	m

## Pin Configuration

+Us	positive bridge supply	brown	
-Us	negative bridge supply	white	shield: transparent
+UD	positive bridge output	green	
-UD	negative bridge output	yellow	

Tensile loading: positive output signal;