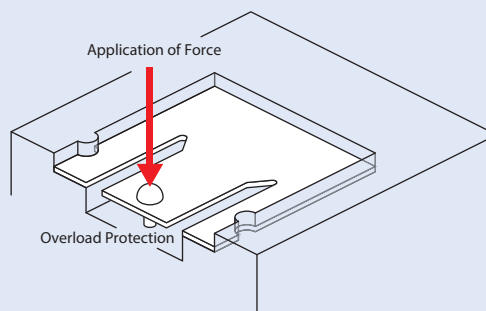
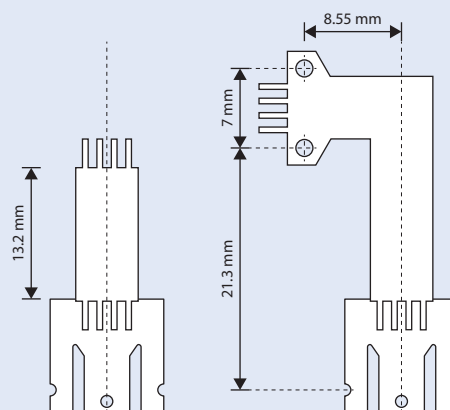
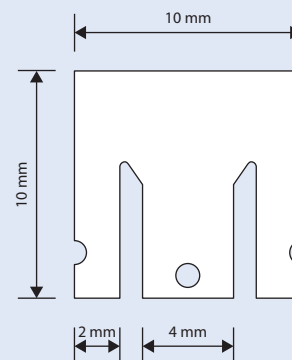
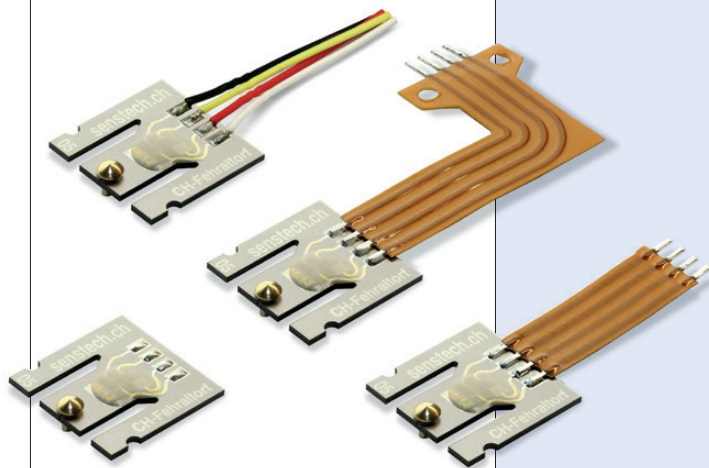


Sensor Type KE-011-0600

Dimensions and Installation

On the compact force sensor with a thickness of just 0.5 mm and dimensions of 10 × 10 mm, the force is applied to a round brass rivet head. Versions with solder points, with single strands or with two different flex connectors are available.



Specifications

General Specifications for the KE-011-0600

Series Sensor Elements

Measuring principle	Thin film strain gauges
Measured parameter	Force (N)
Electrical contacting *	Solder points, single strands, I-shaped or L-shaped Flex
Installation	Side arms fixed, center tongue free with overload stop
Force application	on round brass rivet head
Force direction	Perpendicular to coating side, if necessary also from the reverse side
Supply voltage	maximum 15 VDC, signal and sensitivity proportional to supply voltage
Shielding *	none
Temperature range *	-20 °C to +80 °C
Humidity range	up to 95% relative humidity, non-condensing

Product name		Force sensor «Eiger»			
Item code		KE-011-0601-010N			
		Tolerances	KE-011-0602-010N	KE-011-0603-010N	KE-011-0604-010N
Electrical contacting		Tinned solder pads only	with L-shaped Flex	with I-shaped Flex	with stranded wires
Measuring range (Full scale FS)		0-10 N			
Overload range		0-18 N			
Sensitivity		0.18 mV/V/N	+/- 15 % *		
Displacement		0.2 mm/10 N	+/- 20 %		
Reproduceability		1 % FS			
Offset reproduceability		0.3 % FS			
Linearity error		0 % FS	+/- 0.5 % FS		
Temperature coefficient of offset *		0 % FS/°C	+/- 0.03 % FS/°C *		
Temperature coefficient of sensitivity		0.025 %/°C	+/- 0.01 %/°C		
Geometry	Width	10 mm	+/- 0.03 mm		
	Height	10 mm	+/- 0.03 mm		
	Thickness	0.5 mm	+/- 0.03 mm		
Bridge resistance *		5 kOhm	+/- 25 %		
Bridge offset at zero load *		0 mV/V	+/- 0.2 mV/V *		

*can be adapted to customer requirements for larger order quantities

Specifications are subject to change