Technical Data Sheet

N6AKK11A

Load Cell, 6-axial

Location: Neck, Lower adjustable

Force direction

F_x, F_y, F_z, M_x, M_y, M_z

Application

SIDIIs

Equivalent types

FTSS: IF-273

Measurement specification

Resistive

Strain gauges

Options

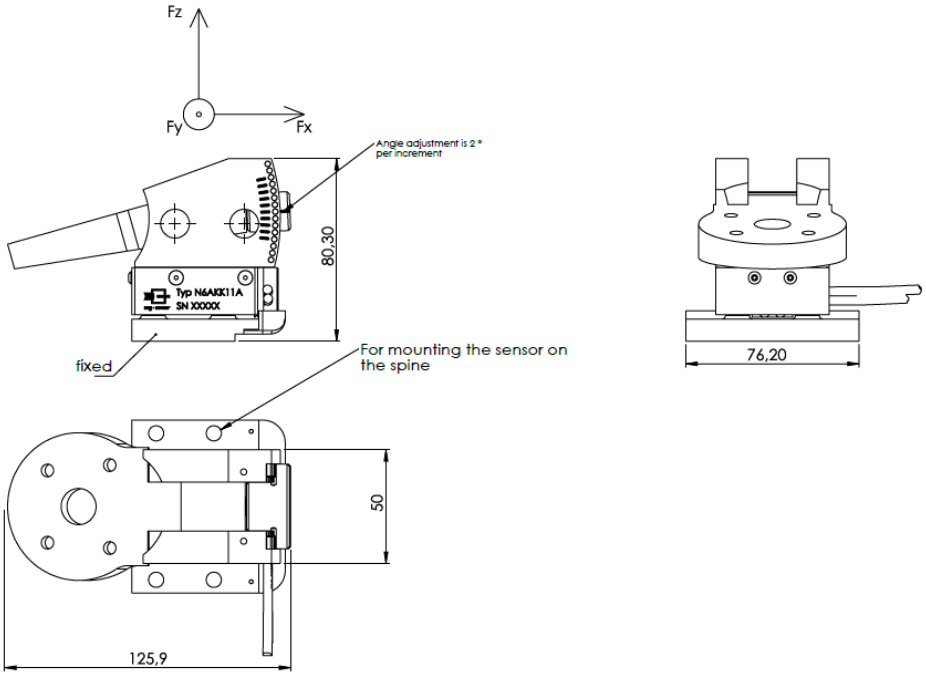
ID-Module integrated in sensor

Polarity according to SAE J211

Technical description

The applied force causes compression or strain of the base body. The deformation is measured using strain gauges. The wiring of multiple strain gauges for a full bridge circuit compensates for the temperature influence on the zero signal and the cross-influence from other force and torque application.

Dimensions



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Technical specification

	Unit	Value					
		F_x	F_y	F_z	M_x	M_y	M_z
Measuring range	kN Nm	8,9	8,9	14,3	 410	 340	 340
Sensitivity[1)]	µV/V/kN µV/V/Nm	157	157	42	 3,7	 4,1	 4,7
Output signal[1), 2)]	mV/V	1,4	1,4	0,6	1,5	1,4	1,6
Bridge resistance	Ω	350	350	1400	700	700	350
Zero signal[1)]	mV/V	≤ 0,05					
Amplitude non-linearity[3)]	%	≤ 1,0					
Hysteresis[3)]	%	≤ 1,0					
Channel crosstalk[3)]	%	≤ 5,0					
Supply voltage	V	2–15					
Ultimate load	%	150					
Insulation resistance	MΩ	> 100					
Temperature range	°C	–30…+70					
Weight (approximate)	g	640					

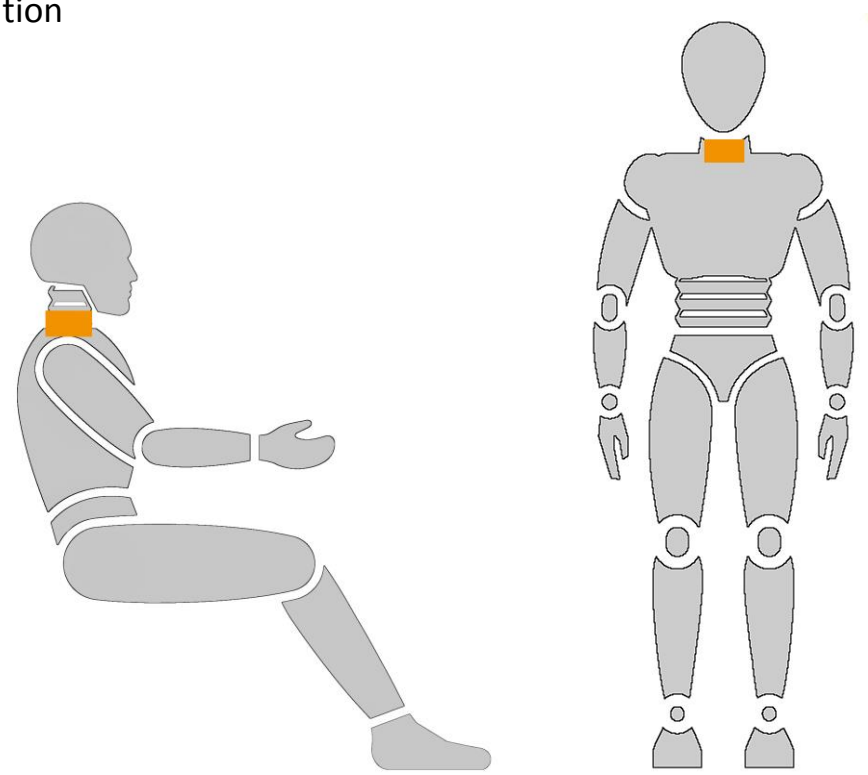
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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