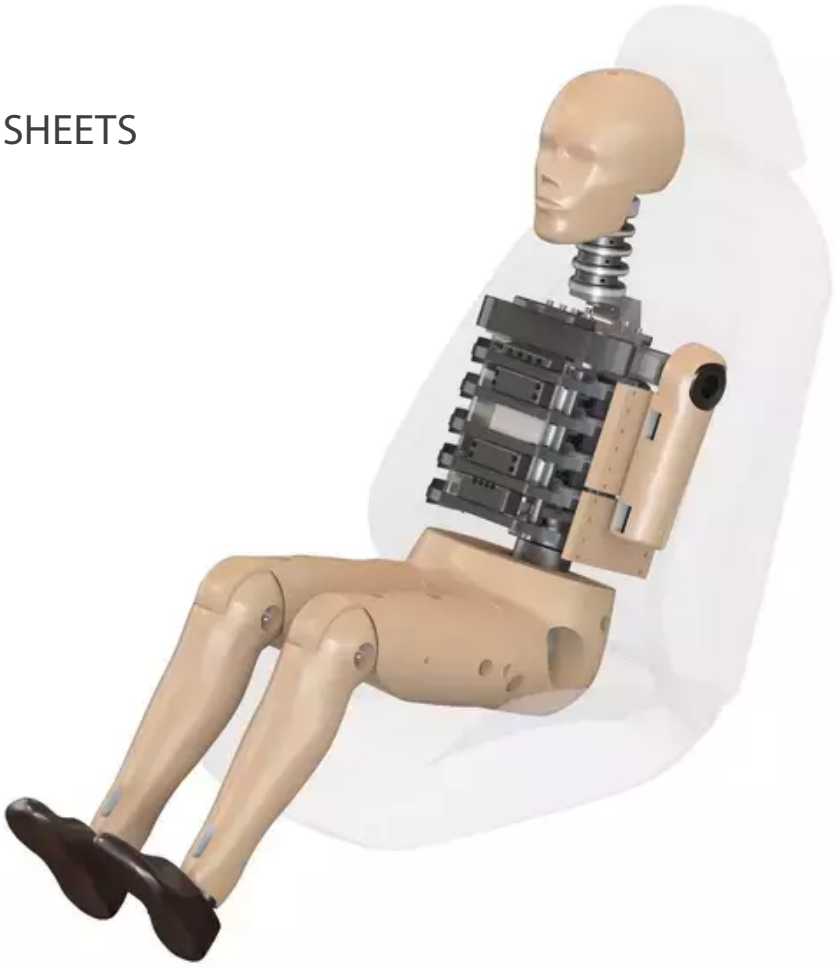
Crash Test Dummy Load Cells

SID-IIs

TECHNICAL DATA SHEETS



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MG-SENSOR
A HUMANETICS COMPANY

Technical Data Sheet

F1A3A11A

Load Cell, 1-axial
Location: Acetabulum

Force direction
F_y

Application
SIDIIs

Equivalent types
Denton: 3249J

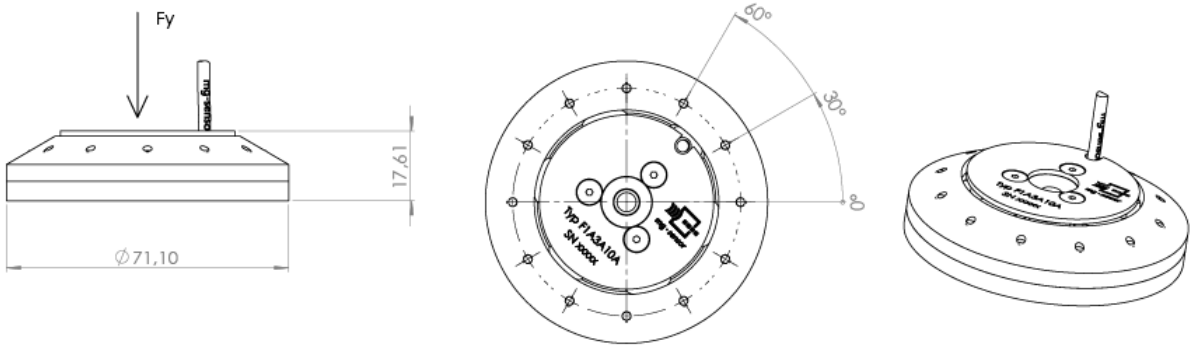
Measurement specification
Resistive
Strain gauges

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



TD F1A3A11A 191014e.docx

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Technical Data Sheet

F1A3A11A

Technical specification

	Unit	Value
		F_y
Measuring range	kN	8.9
Sensitivity[1)]	µV/V/kN	281
Output signal[1), 2)]	mV/V	2.5
Bridge resistance	Ω	540
Zero signal[1)]	mV/V	≤ 0.05
Amplitude non-linearity[3)]	%	≤ 1.0
Hysteresis[3)]	%	≤ 1.0
Channel cross talk[3)]	%	–
Supply voltage	V	2–15
Ultimate load	%	150
Insulation resistance	MΩ	> 100
Temperature range	°C	-30…+70
Weight (approximate)	g	140

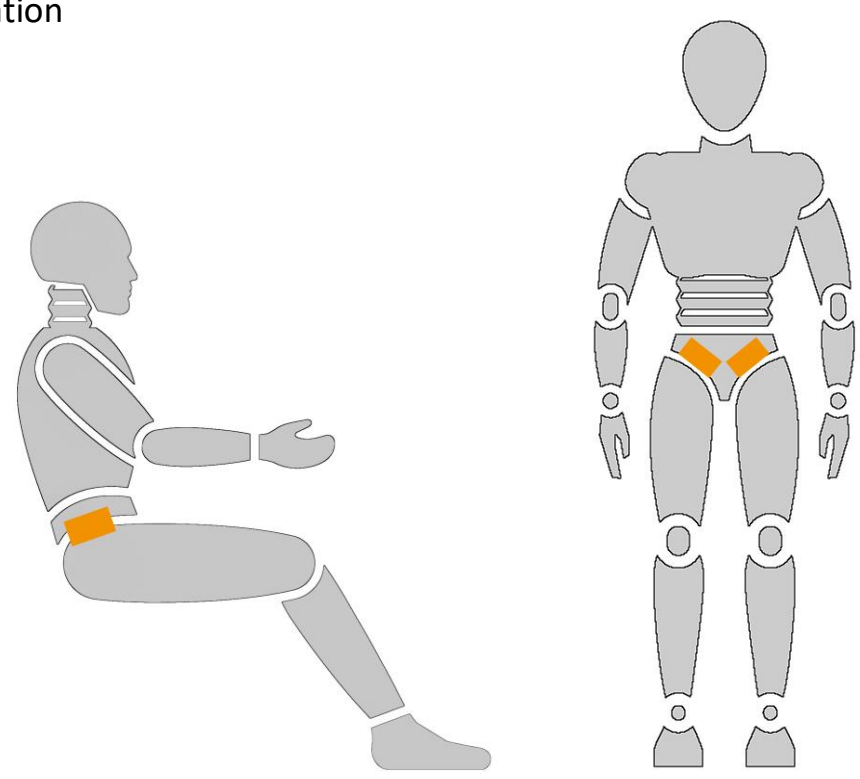
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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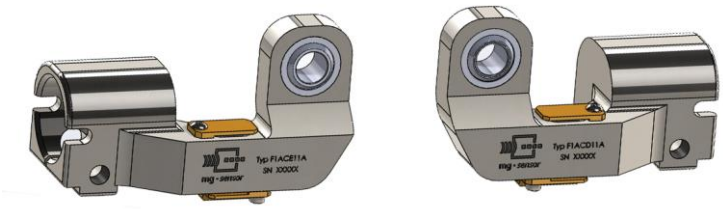
Technical Data Sheet

F1ACC11A

Load Cell, 1-axial

Location: Femur, Upper

Type: F1ACD11A (left)
F1ACE11A (right)



Force direction
F_y

Application
SIDIIs

Equivalent types
Denton: 3169 (3753/3754)
FTSS: IF-614 (IF-6141/6142)

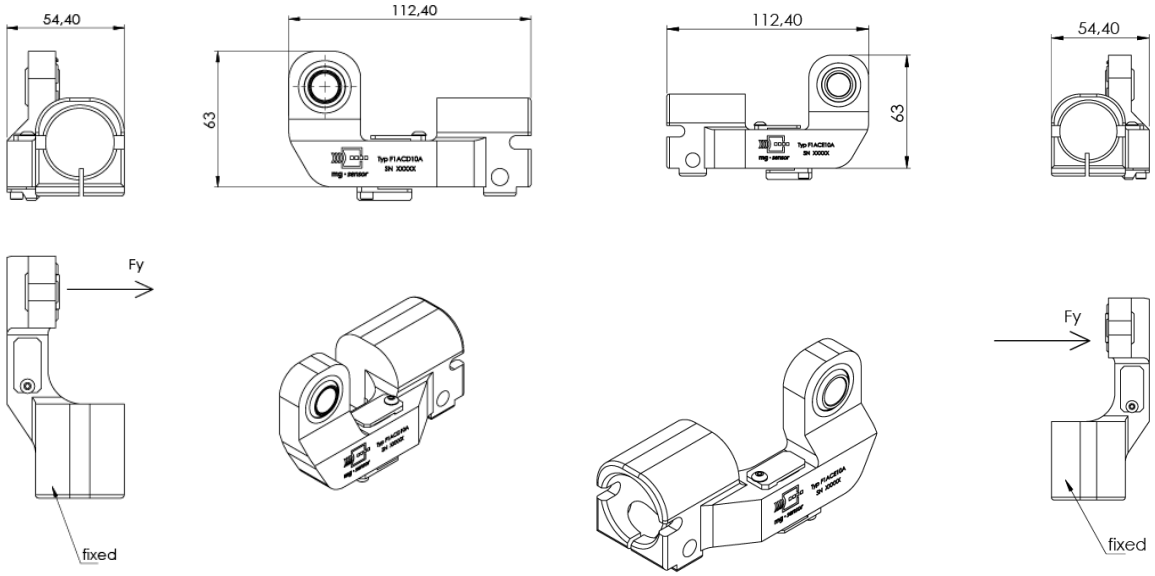
Measurement specification
Resistive
Strain gauges

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 Data Sheet

F1ACC11A

Technical specification

	Unit	Value
		F_y
Measuring range	kN	8.9
Sensitivity[1)]	µV/V/kN	202
Output signal[1), 2)]	mV/V	1.8
Bridge resistance	Ω	350
Zero signal[1)]	mV/V	≤ 0.05
Amplitude non-linearity[3)]	%	≤ 1.0
Hysteresis[3)]	%	≤ 1.0
Channel cross talk[3)]	%	–
Supply voltage	V	2–15
Ultimate load	%	150
Insulation resistance	MΩ	> 100
Temperature range	°C	-30…+70
Weight (approximate)	g	2 x 640

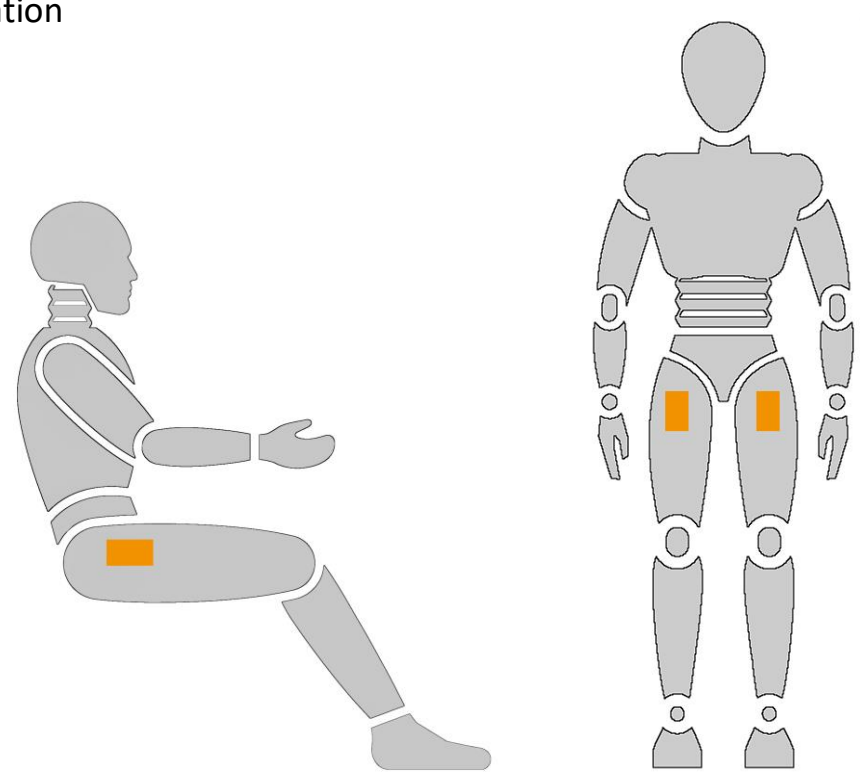
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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Technical Data Sheet

F1AFA11A

Load Cell, 1-axial

Location: Iliac Wing

Force direction
F_y

Application
SIDIIs

Equivalent types
Denton: 3228J

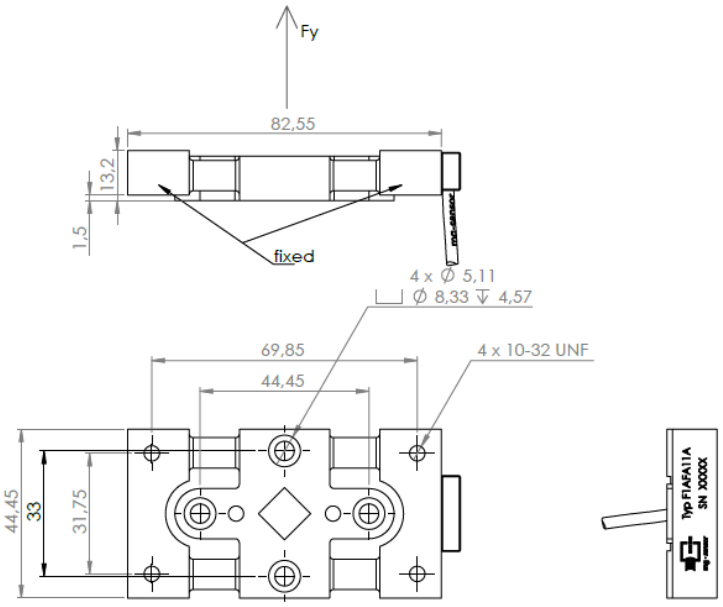
Measurement specification
Resistive
Strain gauges

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 Data Sheet

F1AFA11A

Technical specification

	Unit	Value
		F_y
Measuring range	kN	13.5
Sensitivity[1)]	µV/V/kN	133
Output signal[1), 2)]	mV/V	1.8
Bridge resistance	Ω	350
Zero signal[1)]	mV/V	≤ 0.05
Amplitude non-linearity[3)]	%	≤ 1.0
Hysteresis[3)]	%	≤ 1.0
Channel cross talk[3)]	%	–
Supply voltage	V	2–15
Ultimate load	%	150
Insulation resistance	MΩ	> 100
Temperature range	°C	-30…+70
Weight (approximate)	g	300

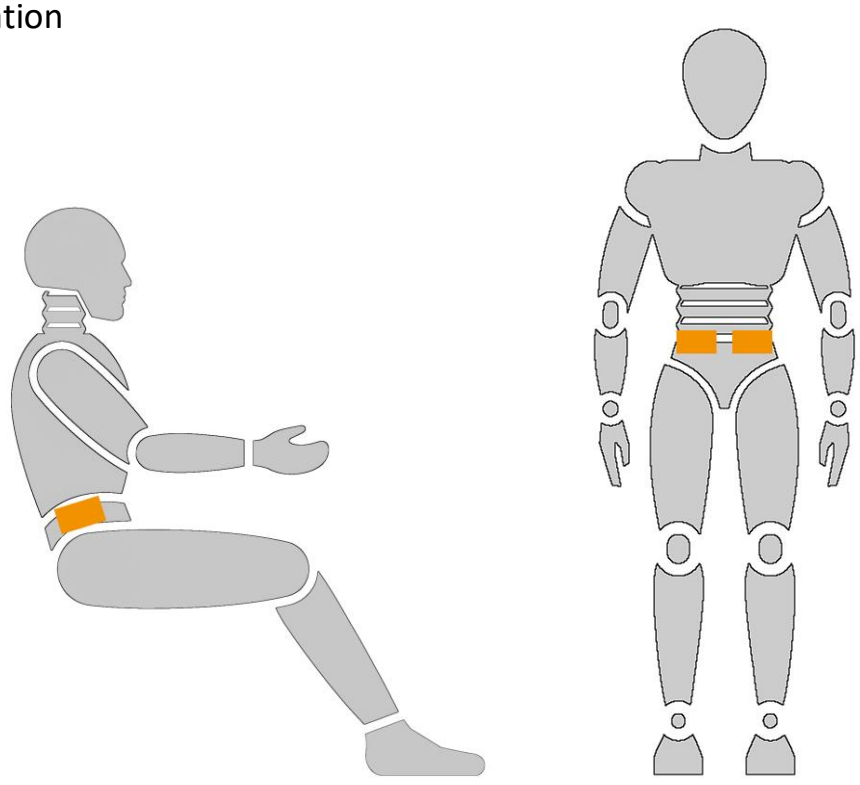
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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Technical Data Sheet

N3ALA11A

Load Cell, 3-axial

Location: Neck, Upper

Force direction
F_x, F_z, M_y

Application
H3-5%, H3-50%, H3-95%,
SID2s, H3-6YO, H3-10YO

Equivalent types
Denton: 2564 (1716 6-axis)
FTSS: (IF-205 6-axis)

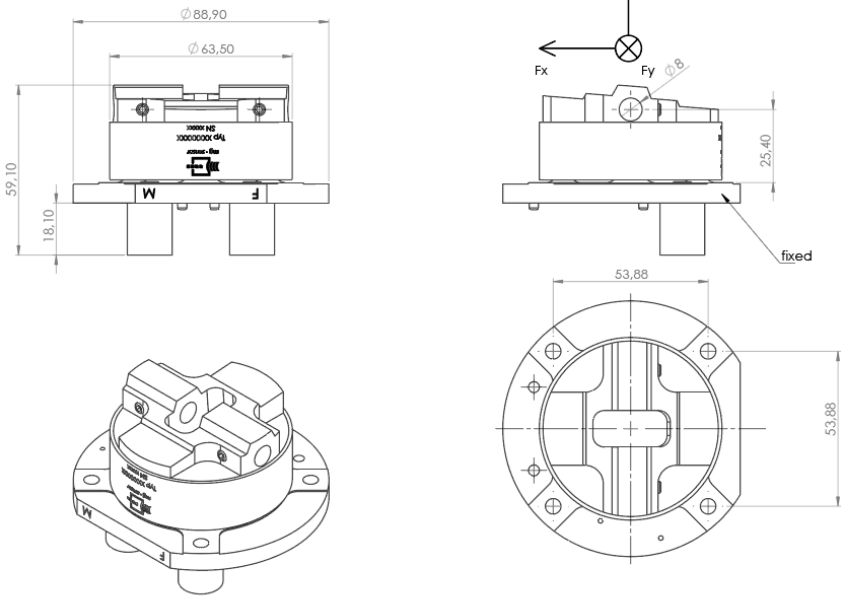
Measurement specification
Resistive
Strain gauges

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 Data Sheet

N3ALA11A

Technical specification

	Unit	Value		
		F_x	F_z	M_y
Measuring range	kN Nm	8.9	13.3	 282
Sensitivity[1)]	µV/V/kN µV/V/Nm	191	105	 6.0
Output signal[1), 2)]	mV/V	1.7	1.4	1.7
Bridge resistance	Ω	350	700	350
Zero signal[1)]	mV/V	≤ 0.05		
Amplitude non-linearity[3)]	%	≤ 1.0		
Hysteresis[3)]	%	≤ 1.0		
Channel cross talk[3)]	%	≤ 5.0		
Supply voltage	V	2–15		
Ultimate load	%	150		
Insulation resistance	MΩ	> 100		
Temperature range	°C	-30…+70		
Weight (approximate)	g	680		

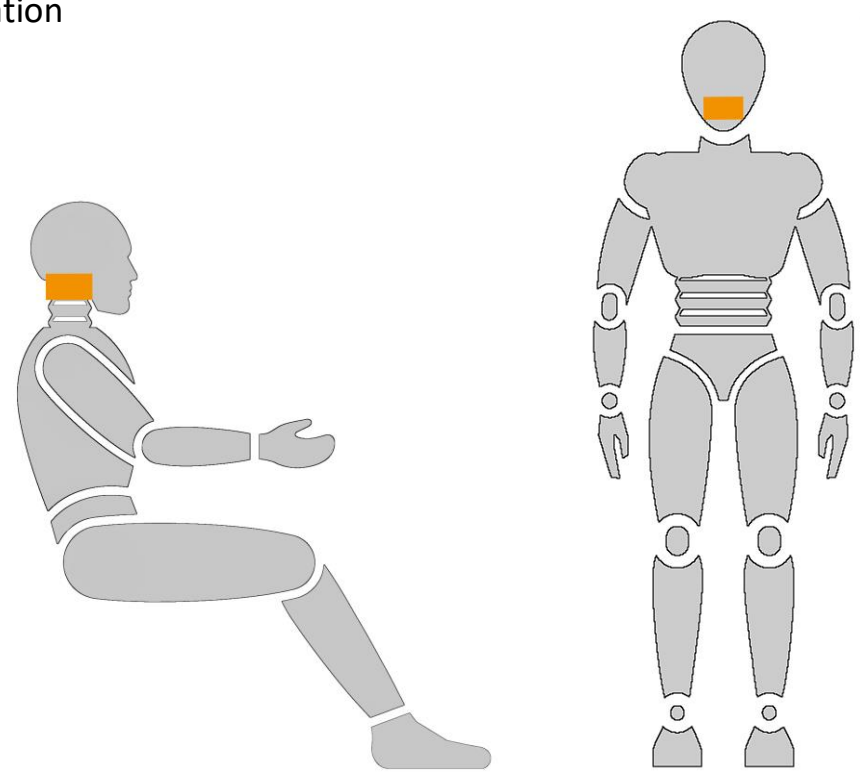
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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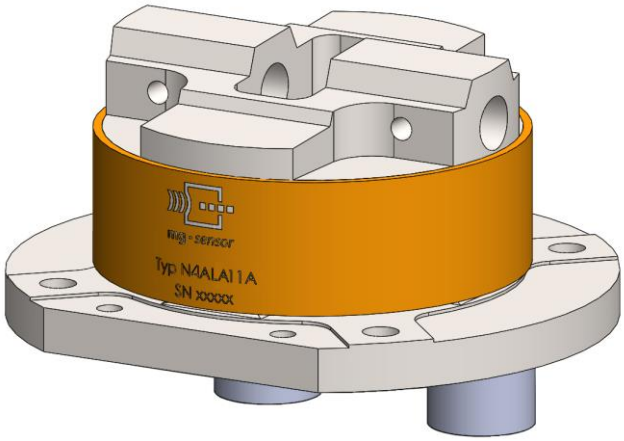
Technical Data Sheet

N4ALA11A

Load Cell, 4-axial

Location: Neck



Force direction
F_x, F_y, F_z, M_y

Application
H3-5%, H3-50%, H3-95%,
H3-6YO, H3-10YO
SIDIIs

Equivalent types
FTSS: IF-256

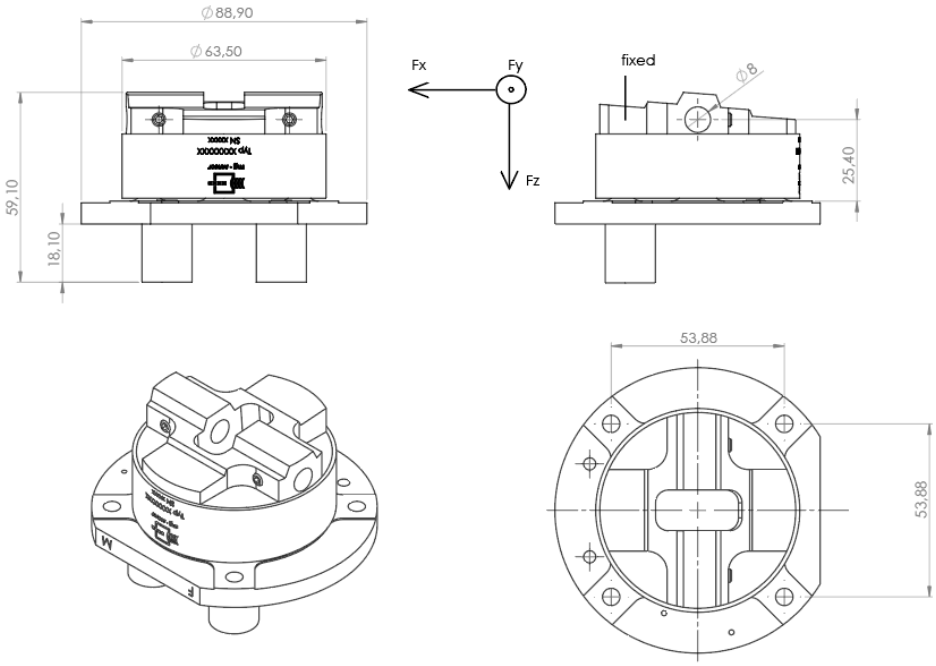
Measurement specification
Resistive
Strain gauges

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 Data Sheet

N4ALA11A

Technical specification

	Unit	Value			
		F_x	F_y	F_z	M_y
Measuring range	kN Nm	8.9	8.9	13.3	 282
Sensitivity[1)]	µV/V/kN µV/V/Nm	191	191	105	 6.0
Output signal [1), 2)]	mV/V	1.7	1.7	1.4	1.7
Bridge resistance	Ω	350	350	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	630			

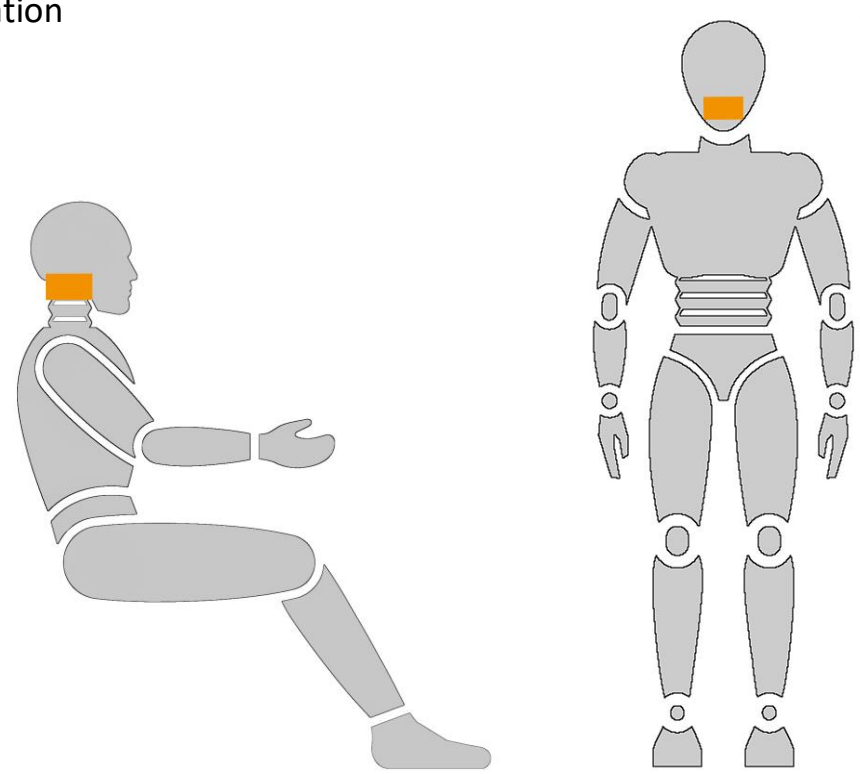
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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Technical Data Sheet

N6ACB11A

Load Cell, 6-axial

Location: Femur

Force direction

F_x, F_y, F_z, M_x, M_y, M_z

Application

H2-50%, H3-5%, H3-50%, H3-95%, Thor, BioSID, EUROSID, ES2, ES1, SIDIIs

Equivalent types

Denton: 4257
FTSS: IF-631

Measurement specification

Resistive
Strain gauges

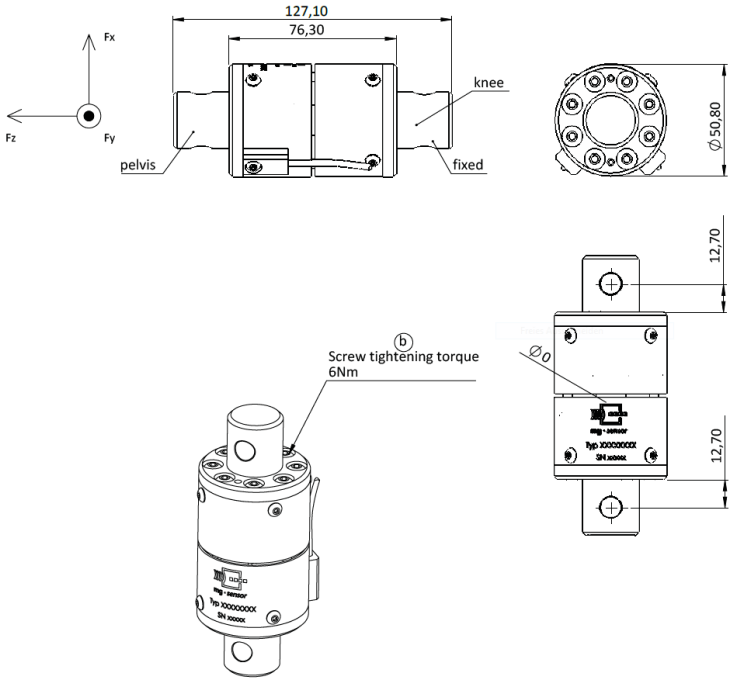
Options

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 Data Sheet

N6ACB11A

Technical specification

	Unit	Value					
		F_x	F_y	F_z	M_x	M_y	M_z
Measuring range	kN Nm	13.4	13.4	22.3	 340	 340	 340
Sensitivity[1)]	µV/V/kN µV/V/Nm	112	112	58.3	 4.1	 4.1	 6.7
Output signal[1), 2)]	mV/V	1.5	1.5	1.3	1.4	1.4	2.3
Bridge resistance	Ω	350	350	700	350	350	700
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	900					

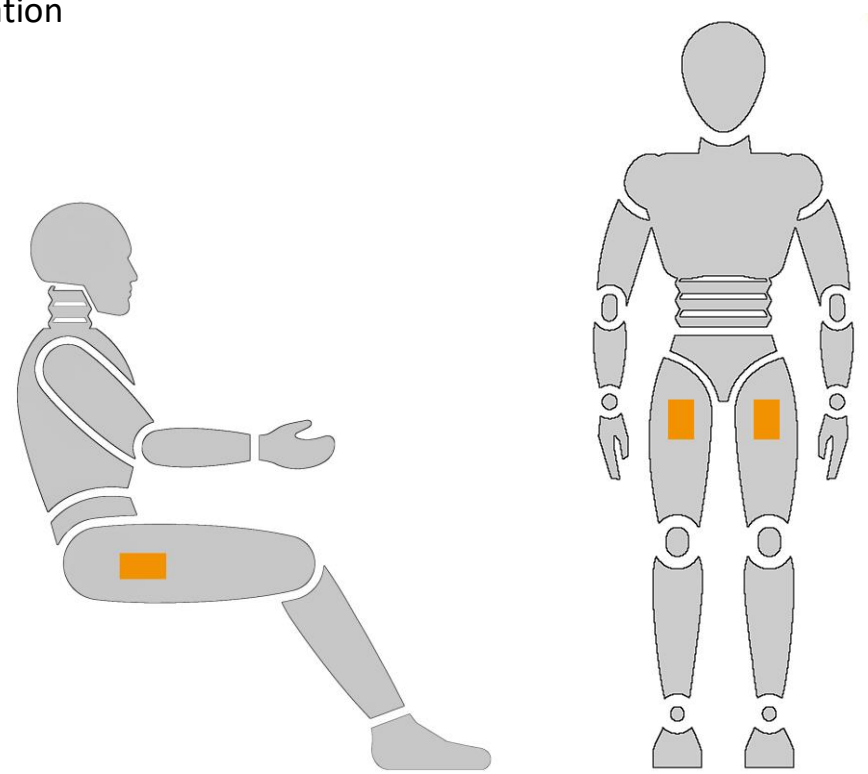
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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Technical Data Sheet

N6ACC11A

Load Cell, 6-axial

Location: Femur

Force direction

F_x, F_y, F_z, M_x, M_y, M_z

Application

H2-50%, H3-5%, H3-50%, H3-95%, Thor, BioSID, EUROSID, ES2, ES1, SIDIIs

Equivalent types

FTSS: IF-625

Measurement specification

Resistive

Strain gauges

Options

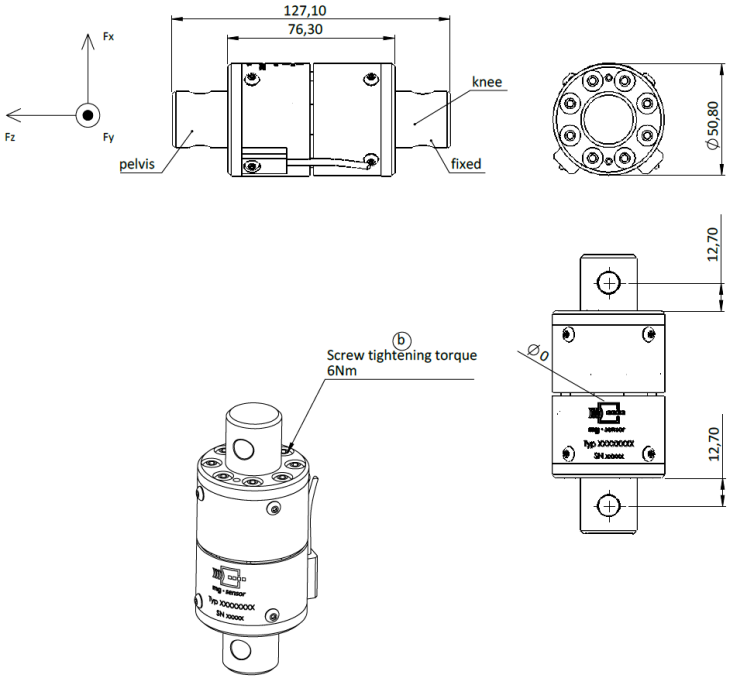
ID-Module integrated in sensor

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 Data Sheet

N6ACC11A

Technical specification

	Unit	Value					
		F_x	F_y	F_z	M_x	M_y	M_z
Measuring range	kN Nm	13.4	13.4	22.3	 340	 340	 340
Sensitivity[1)]	µV/V/kN µV/V/Nm	113	113	58.3	 4.1	 4.1	 6.6
Output signal[1), 2)]	mV/V	1.5	1.5	1.3	1.4	1.4	2.3
Bridge resistance	Ω	350	350	700	350	350	700
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	1000					

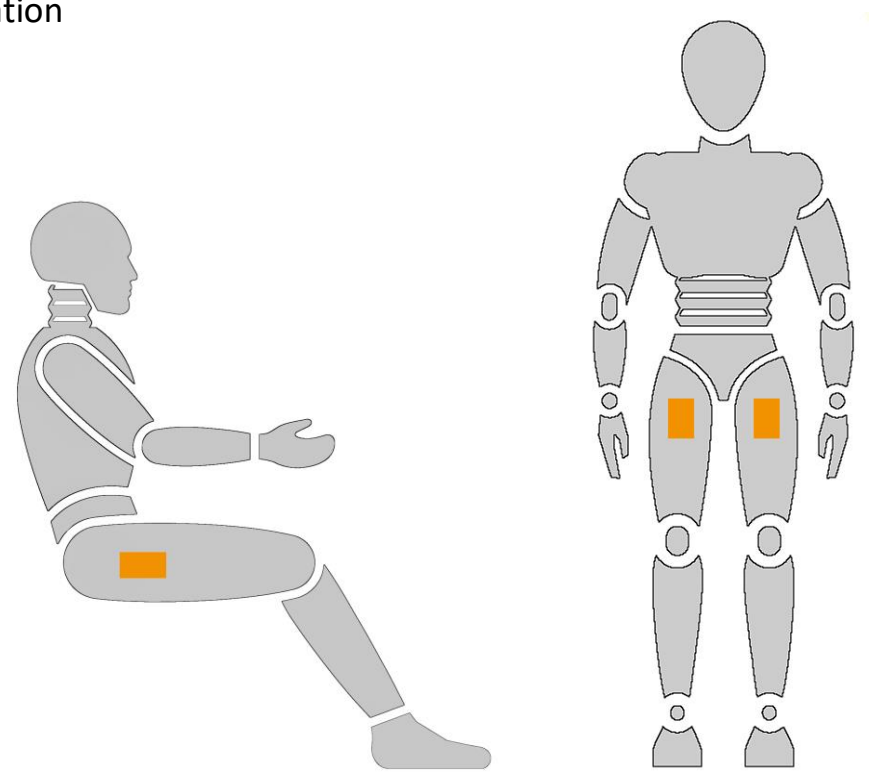
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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Technical Data Sheet

N6ACG11A

Load Cell, 6-axial
with 3-axial ARS integration
Location: Femur

Force direction
F_x, F_y, F_z, M_x, M_y, M_z

Application
H3-5%, H3-50%, H3-95%,
BioSID, EUROSID, SIDIIs

Equivalent types

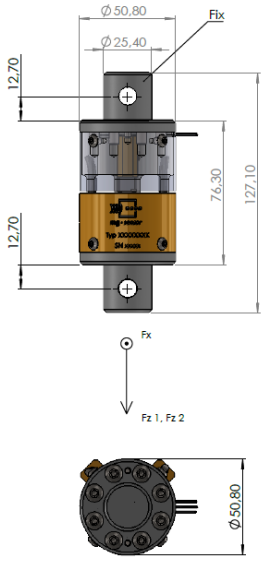
Measurement specification
Resistive
Strain gauges

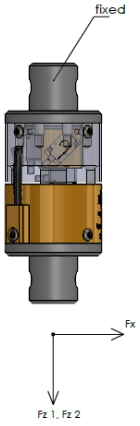
Options
ID-Module integrated in sensor
Polarity according to SAE J211

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 Data Sheet

N6ACG11A

Technical specification

	Unit	Value					
		F_x	F_y	F_z	M_x	M_y	M_z
Measuring range	kN Nm	13.4	13.4	22.3	 340	 340	 340
Sensitivity[1)]	µV/V/kN µV/V/Nm	112	112	62.8	 4.1	 4.1	 6.7
Output signal[1), 2)]	mV/V	1.5	1.5	1.4	1.4	1.4	2.3
Bridge resistance	Ω	350	350	700	350	350	700
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	900					

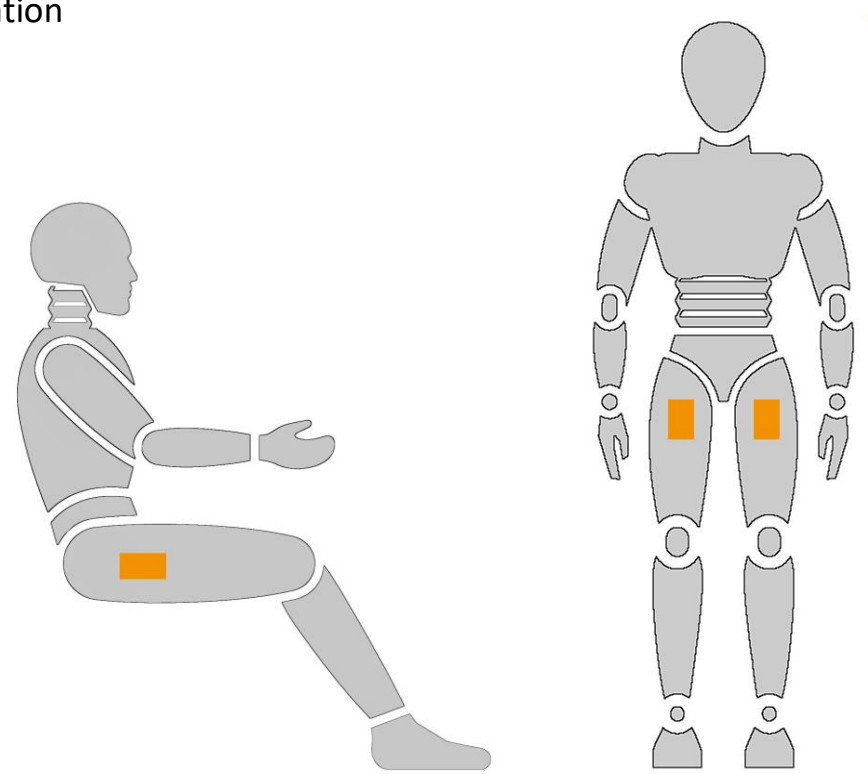
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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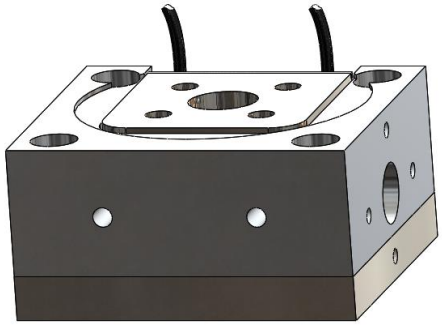
Technical Data Sheet

N6AIB11A

Load Cell, 6-axial

Location: Lumbar Spine



Force direction
F_x, F_y, F_z, M_x, M_y

Application
SIDIIs

Equivalent types
Denton: 3229
FTSS: IF-414

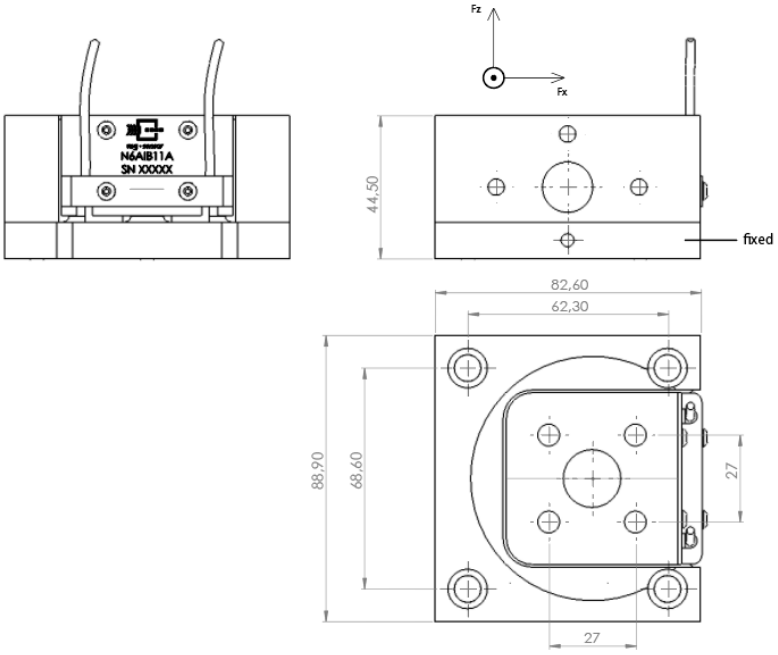
Measurement specification
Resistive
Strain gauges

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 Data Sheet

N6AIB11A

Technical specification

	Unit	Value					
		F_x	F_y	F_z	M_x	M_y	M_z
Measuring range	kN Nm	13.3	13.3	13.3	 450	 450	 226
Sensitivity[1)]	µV/V/kN µV/V/Nm	150	150	90	 6.7	 6.7	 12
Output signal[1), 2)]	mV/V	2.0	2.0	1.2	3.0	3.0	2.7
Bridge resistance	Ω	350	350	700	350	350	700
Zero signal[1)]	mV/V	≤ 0.05					
Amplitude non-linearity[3)]	%	≤ 1.0					
Hysteresis[3)]	%	≤ 1.0					
Channel cross talk[3)]	%	≤ 5.0					
Supply voltage	V	2–15					
Ultimate load	%	150					
Insulation resistance	MΩ	> 100					
Temperature range	°C	-30…+70					
Weight (approximate)	g	1600 incl. mass block					

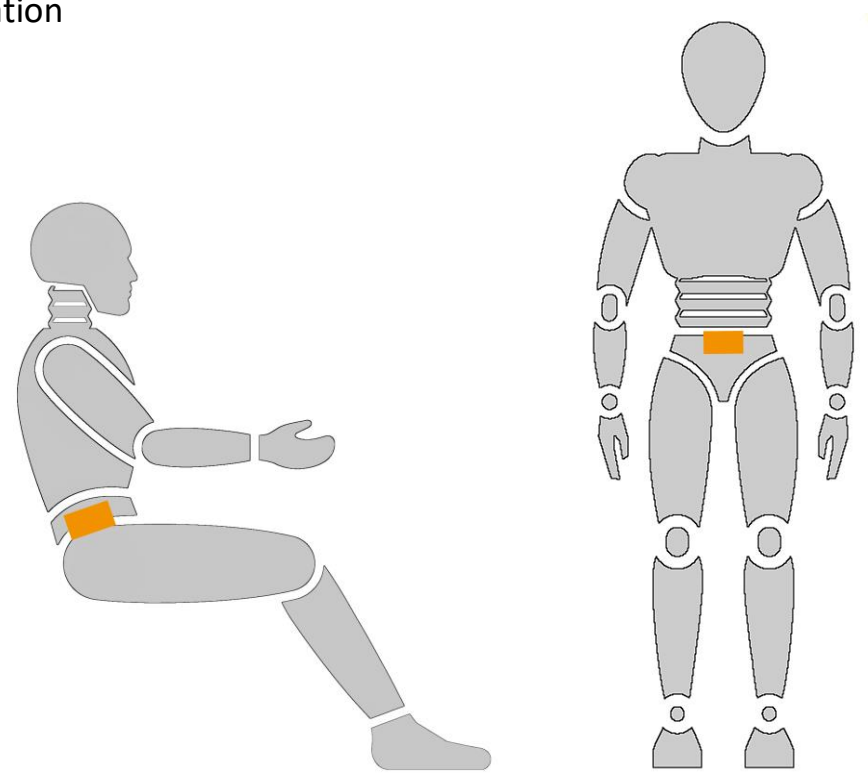
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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Technical Data Sheet

N6AIM11A

Load Cell, 6-axial

Location: Lumbar Spine

Force direction

F_x, F_y, F_z, M_x, M_y, M_z

Application

H2-50%

SIDIIs

Equivalent types

Denton: 1708

FTSS: IF-405

Measurement specification

Resistive

Strain gauges

Options

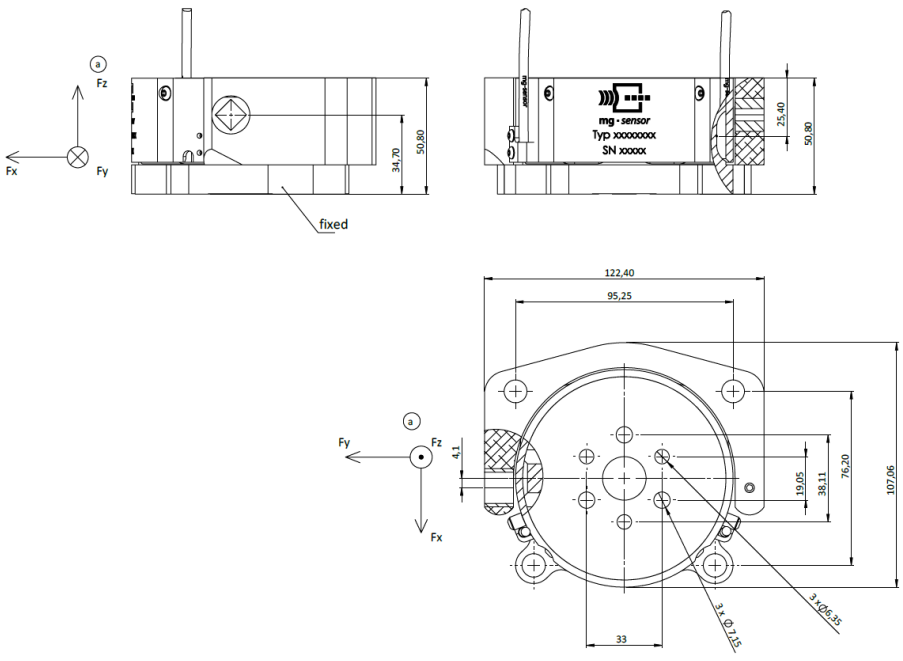
ID-Module integrated in sensor

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 Data Sheet

N6AIM11A

Technical specification

	Unit	Value					
		F_x	F_y	F_z	M_x	M_y	M_z
Measuring range	kN Nm	13.5	13.5	22.3	 1130	 1130	 450
Sensitivity[1)]	µV/V/kN µV/V/Nm	74	74	45	 1.8	 1.8	 2.7
Output signal[1), 2)]	mV/V	1.0	1.0	1.0	2.0	2.0	1.2
Bridge resistance	Ω	350	350	700	350	350	700
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	1600					

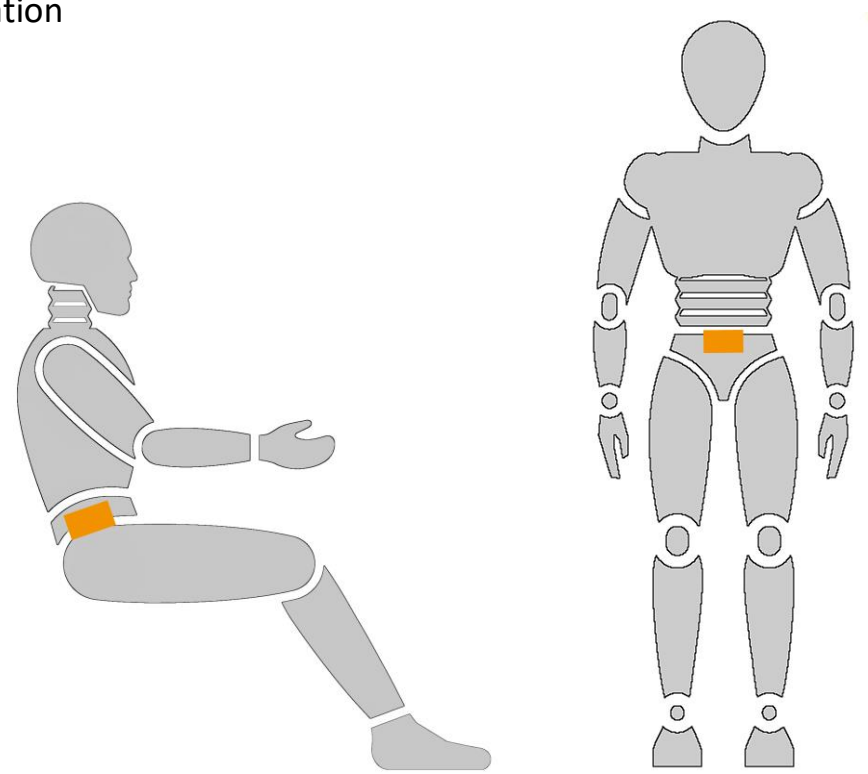
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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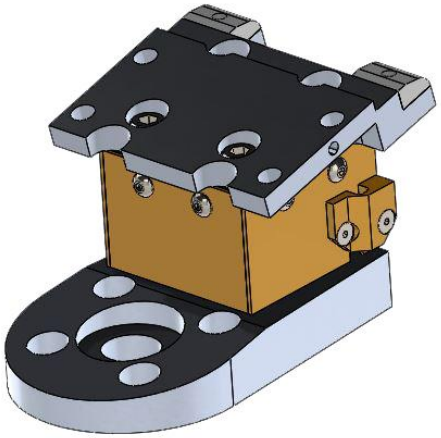
Technical Data Sheet

N6AKA11A

Load Cell, 6-axial

Location: Neck, Lower



Force direction
F_x, F_y, F_z, M_x, M_y, M_z

Application
SIDIIs

Equivalent types
Denton: 3166
FTSS: (IF-255)

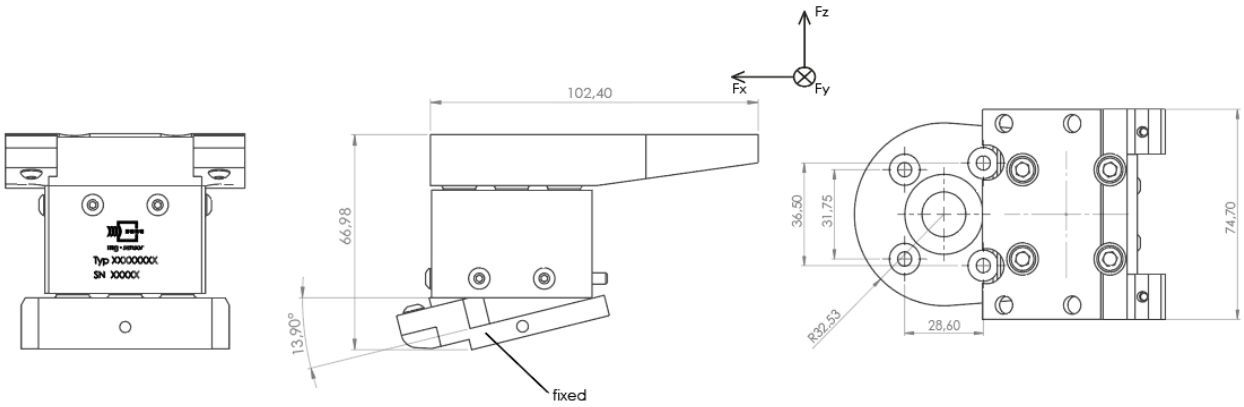
Measurement specification
Resistive
Strain gauges

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 Data Sheet

N6AKA11A

Technical specification

	Unit	Value					
		F_x	F_y	F_z	M_x	M_y	M_z
Measuring range	kN Nm	13.3	13.3	13.3	 452	 452	 339
Sensitivity[1)]	µV/V/kN µV/V/Nm	165	165	90	 4.4	 4.4	 5.9
Output signal[1), 2)]	mV/V	2.2	2.2	1.2	2.0	2.0	2.0
Bridge resistance	Ω	350	350	700	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	550					

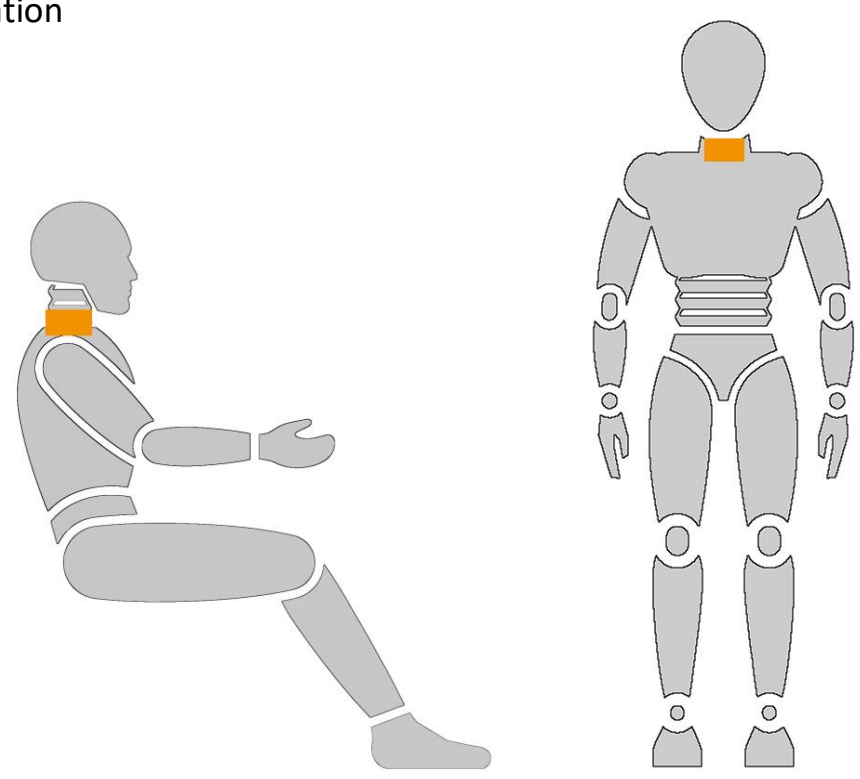
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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Technical Data Sheet

N6AKQ11A

Load Cell, 6-axial

Location: Neck, Lower

Force direction
F_x, F_y, F_z, M_x, M_y, M_z

Application
SIDIIs

Equivalent types
FTSS: IF-269

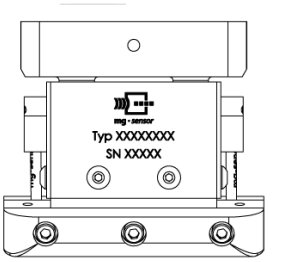
Measurement specification
Resistive
Strain gauges

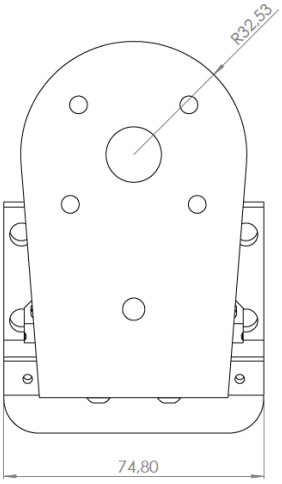
Options
ID-Module integrated in sensor
Polarity according to SAE J211

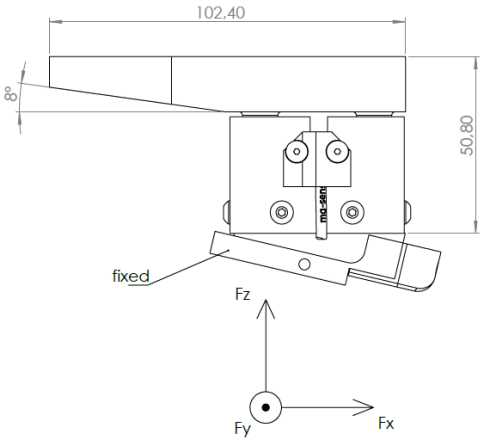
Technical description

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 Data Sheet

N6AKQ11A

Technical specification

	Unit	Value					
		F_x	F_y	F_z	M_x	M_y	M_z
Measuring range	kN Nm	11.1	11.1	11.1	 340	 340	 340
Sensitivity[1)]	µV/V/kN µV/V/Nm	200	200	46	 4.1	 4.1	 5.4
Output signal[1), 2)]	mV/V	2.2	2.2	0.5	1.4	1.4	1.8
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	500					

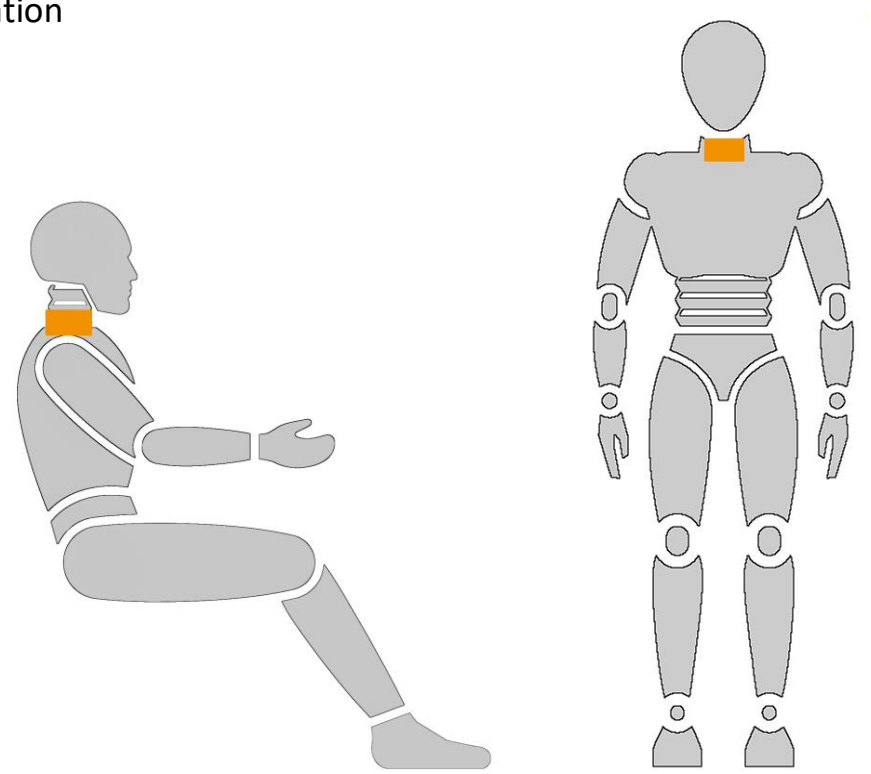
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value

[2)] At nominal load

[3)] Relative nominal range

Dummy application



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