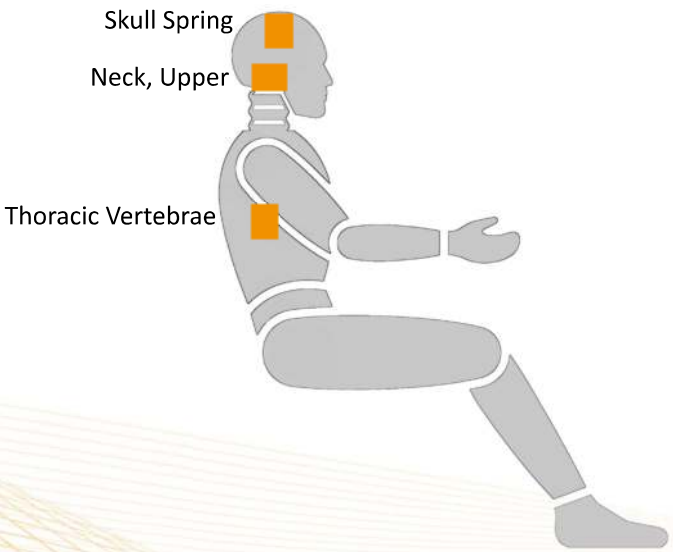
Dummy BioRID



Location	Axial	Model*	Page
Skull Spring	1	F1ARA11A	155
Neck, Upper	6	N6ALA11A	156
Thoracic Vertebrae	3	N3ASC11A	157

*additional versions available on request!

F1ARA11A

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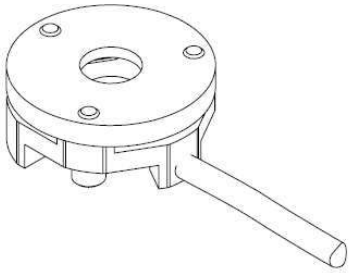
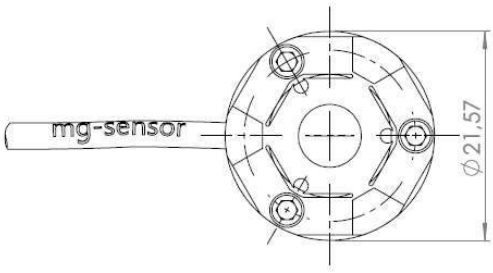
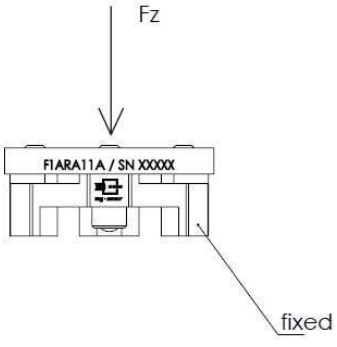
Description	Load Cell, 1-axial Skull Spring	
Measuring range *Fz*	kN	4,4
Sensitivity[1)] *Fz*	µV/V/kN	523
Output signal[1), 2)] *Fz*	mV/V	2,3
Bridge resistance *Fz*	Ω	1050
Zero signal[1)]	mV/V	≤ 0,05
Amplitude non-linearity[3)]	%	≤ 1,0
Hysteresis[3)]	%	≤ 1,0
Channel crosstalk[3)]	%	-
Supply voltage	V	2–15
Ultimate load	%	150
Insulation resistance	MΩ	> 100
Temperature range	°C	–30..+70
Weight (approximate)	g	15 (without cable)
Application	Thor, BioRID	

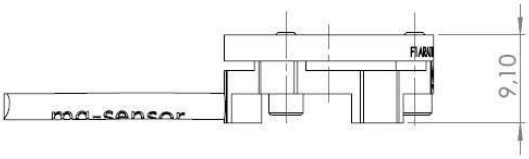
All values measured at 10 V sensor supply voltage and at 23 °C.

[1)] Typical value, [2)] At nominal load, [3)] Relative nominal range









N6ALA11A

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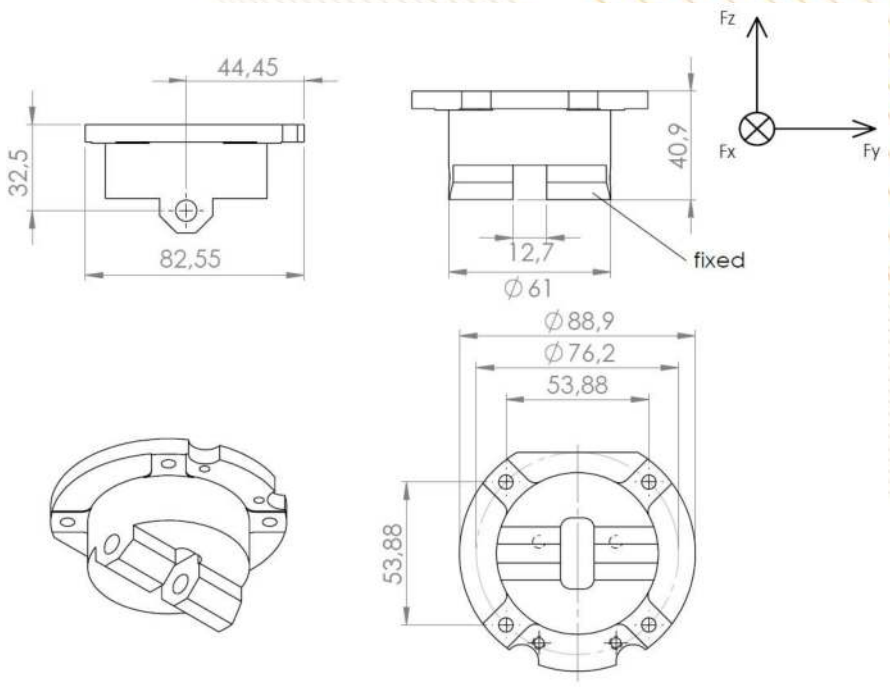
Description	Load Cell, 6-axial Neck, Upper	
Measuring range *Fx/Fy/Fz* *Mx/My/Mz*	 kN Nm	 1,4/0,9/4,5 57/113/34
Sensitivity[1)] *Fx/Fy/Fz* *Mx/My/Mz*	 µV/V/kN µV/V/Nm	 570/667/222 14/13/23,5
Output signal[1), 2)] *Fx/Fy/Fz/Mx/My/Mz*	mV/V	0,8/0,6/1,0/0,8/1,5/0,8
Bridge resistance *Fx/Fy/Fz/Mx/My/Mz*	Ω	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	-
Application	BioRID	

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

[1)] Typical value, [2)] At nominal load, [3)] Relative nominal range



N3ASC11A

Dummy side view see page 123

Description	Load Cell, 3-axial Thoracic Vertebrae	
Measuring range *Fx/Fz* *My*	 kN Nm	 5,0/5,0 125
Sensitivity[1)] *Fx/Fz* *My*	 µV/V/kN µV/V/Nm	 240/240 14,4
Output signal[1), 2)] *Fx/Fz/My*	 mV/V	 1,2/1,2/1,8
Bridge resistance *Fx/Fz/My*	 Ω	 700/700/700
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	260
Application	BioRID	

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

[1)] Typical value, [2)] At nominal load, [3)] Relative nominal range