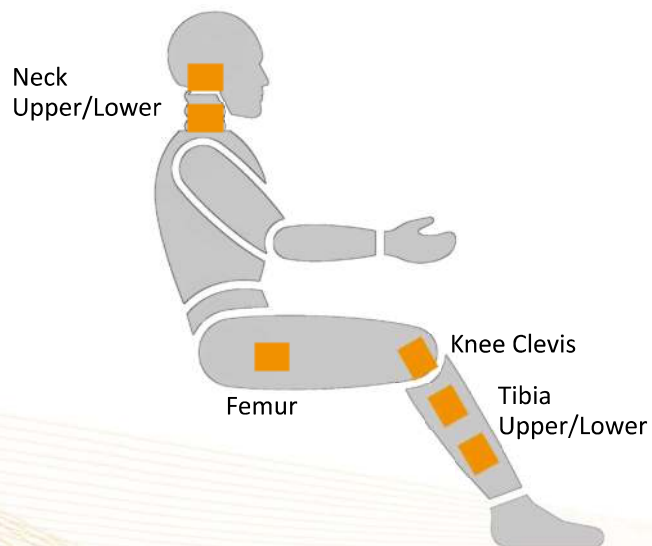
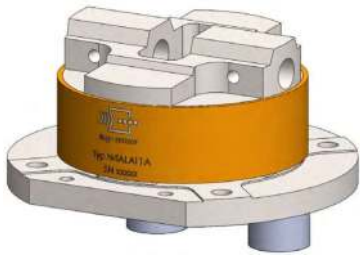


Dummy BioSID



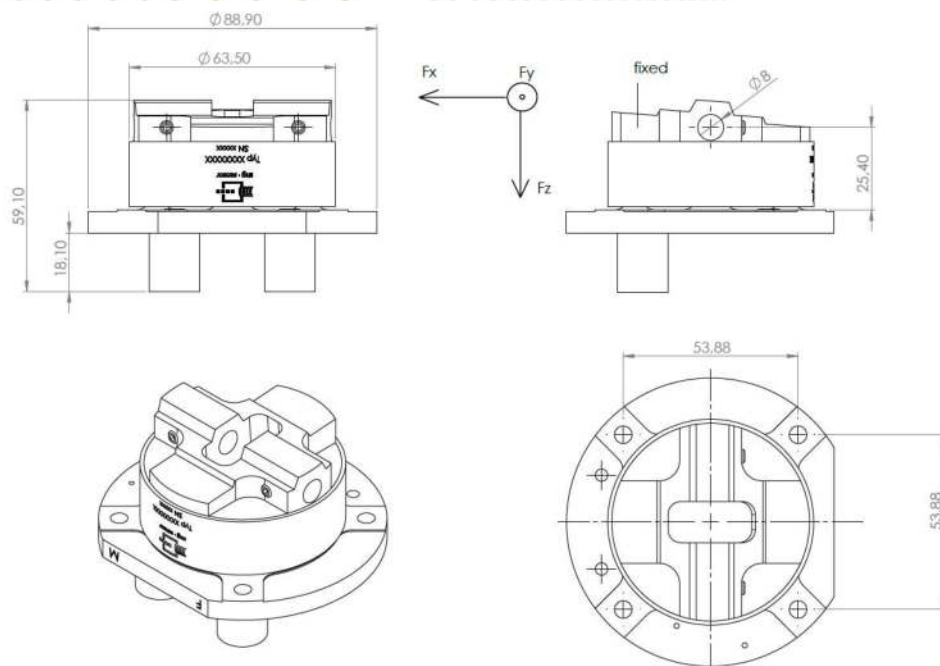
Location	Axial	Model*	Page
Neck	4	N4ALA11A	127
Neck	6	N6AKI11A	128
Neck	6	N6AKO11A	on request
Neck, Upper	6	N6ALB11A	129
Neck, Lower	6	N6AKC11A	130
Femur	6	N6ACB11A	131
Femur	6	N6ACC11A	on request
Knee Clevis	2	F2A9A10A	on request
Tibia, Upper	3	N3AUA11A	132
Tibia, Upper	4	N4AUA10A	133
Tibia, Upper	5	N5AUA11A	134
Tibia, Lower	4	N4ATA10A	135
Tibia, Lower	4	N4ATB11A	on request
Tibia, Lower	5	N5ATA11A	136

*additional versions available on request!

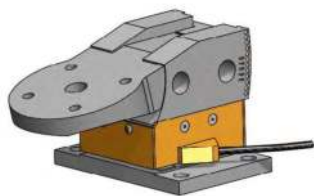
N4ALA11A   Dummy side view see page 112	Description	Load Cell, 4-axial Neck	
	Measuring range <i>F_x/F_y/F_z</i> <i>M_y</i>	kN Nm	8,9/8,9/13,3 282
	Sensitivity ¹⁾ <i>F_x/F_y/F_z</i> <i>M_y</i>	μV/V/kN μV/V/Nm	180/180/90 5,7
	Output signal ^{1), 2)} <i>F_x/F_y/F_z/M_y</i>	mV/V	1,6/1,6/1,2/1,6
	Bridge resistance <i>F_x/F_y/F_z/M_y</i>	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
	Application	H3-Family, SIDIIs, BioSID, H3-6YO	

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

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



N6AKI11A

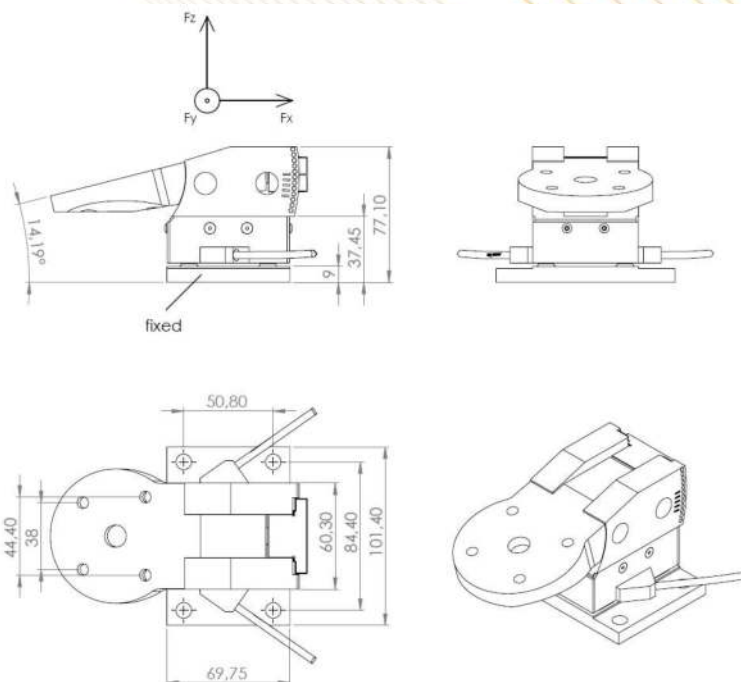


Dummy side view see page 112

Description	Load Cell, 6-axial Neck	
Measuring range $F_x//F_yF_z$ $M_x/M_y/M_z$	kN Nm	6,7/6,7/8,9 340/340/225
Sensitivity ¹⁾ $F_x//F_yF_z$ $M_x/M_y/M_z$	$\mu V/V/kN$ $\mu V/V/Nm$	284/284/67 4,1/4,1/5,8
Output signal ^{1), 2)} $F_x/F_yF_z/M_x/M_y/M_z$	mV/V	1,9/1,9/0,6/1,4/1,4/1,3
Bridge resistance $F_x/F_y/F_z/M_x/M_y/M_z$	Ω	350/350/1400/700/700/350
Zero signal ¹⁾	mV/V	$\leq 0,05$
Amplitude non-linearity ³⁾	%	$\leq 1,0$
Hysteresis ³⁾	%	$\leq 1,0$
Channel crosstalk ³⁾	%	$\leq 5,0$
Supply voltage	V	2–15
Ultimate load	%	150
Insulation resistance	M Ω	> 100
Temperature range	°C	–30..+70
Weight (approximate)	g	920
Application	H3-50%, H3-95%, FAA, BioSID	

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

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



N6ALB11A

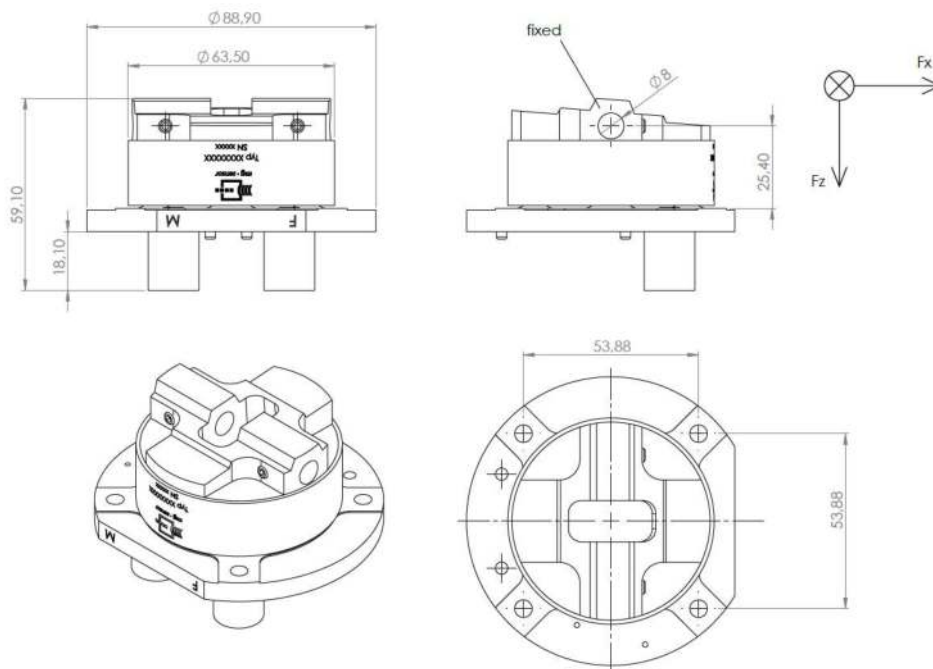



Dummy side view see page 112

Description		Load Cell, 6-axial Neck, Upper	
Measuring range <i>F_x/F_y/F_z</i> <i>M_x/M_y/M_z</i>	kN Nm	8,9/8,9/13,3 282/282/282	
Sensitivity ¹⁾ <i>F_x/F_y/F_z</i> <i>M_x/M_y/M_z</i>	μV/V/kN μV/V/Nm	191/191/105 6,0/6,0/8,2	
Output signal ^{1), 2)} <i>F_x/F_y/F_z/M_x/M_y/M_z</i>	mV/V	1,7/1,7/1,4/1,7/1,7/2,3	
Bridge resistance <i>F_x/F_y/F_z/M_x/M_y/M_z</i>	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	680	
Application	H3-Family, FAA, SIDIIs, BioSID, H3-6YO, H3-10YO		

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

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



N6AKC11A

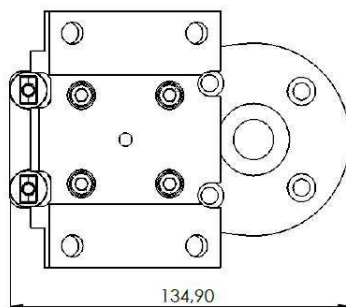
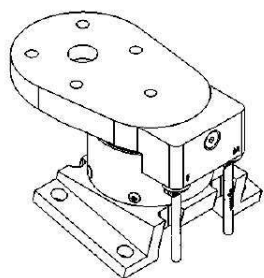
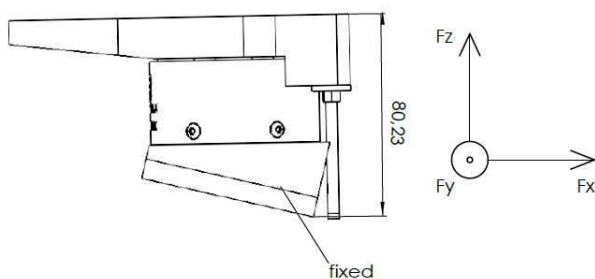


Dummy side view see page 112

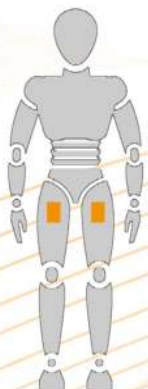
Description	Load Cell, 6-axial Neck, Lower	
Measuring range <i>F_x/F_y/F_z</i> <i>M_x/M_y/M_z</i>	kN Nm	13,3/13,3/13,3 452/452/452
Sensitivity ¹⁾ <i>F_x/F_y/F_z</i> <i>M_x/M_y/M_z</i>	$\mu\text{V/V/kN}$ $\mu\text{V/V/Nm}$	120/120/68 3,8/3,8/6,6
Output signal ^{1), 2)} <i>F_x/F_y/F_z/M_x/M_y/M_z</i>	mV/V	1,6/1,6/0,9/1,7/1,7/3,0
Bridge resistance <i>F_x/F_y/F_z/M_x/M_y/M_z</i>	Ω	350/350/700/350/350/700
Zero signal ¹⁾	mV/V	$\leq 0,05$
Amplitude non-linearity ³⁾	%	$\leq 1,0$
Hysteresis ³⁾	%	$\leq 1,0$
Channel crosstalk ³⁾	%	$\leq 5,0$
Supply voltage	V	2–15
Ultimate load	%	150
Insulation resistance	M Ω	> 100
Temperature range	°C	–30..+70
Weight (approximate)	g	830
Application	H3-50%, H3-95%, FAA, BioSID	

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

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



N6ACB11A



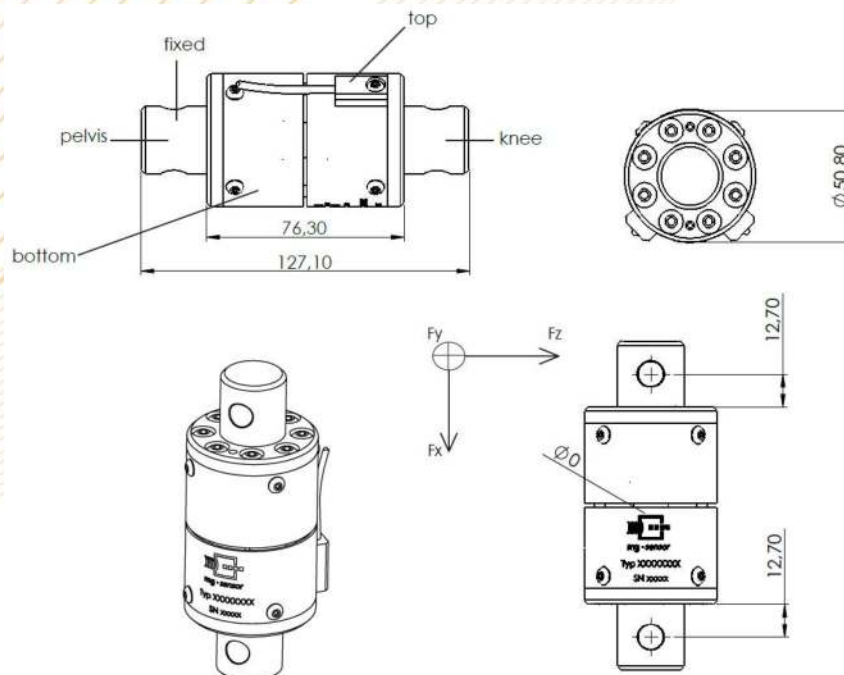
Dummy side view see page 112

Description	Load Cell, 6-axial Femur (with aluminum caps)*	
Measuring range <i>F_x/F_y/F_z</i> <i>M_x/M_y/M_z</i>	kN Nm	13,3/13,3/22,2 339/339/339
Sensitivity ¹⁾ <i>F_x/F_y/F_z</i> <i>M_x/M_y/M_z</i>	μV/V/kN μV/V/Nm	135/135/54 4,4/4,4/7,7
Output signal ^{1), 2)} <i>F_x/F_y/F_z/M_x/M_y/M_z</i>	mV/V	1,8/1,8/1,2/1,5/1,5/2,6
Bridge resistance <i>F_x/F_y/F_z/M_x/M_y/M_z</i>	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	850
Application	H2-50%, H3-Family, Thor, FAA, SID-Family	

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

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

*likewise with steel caps (N6ACC11A) or without caps (N6ACF11A).



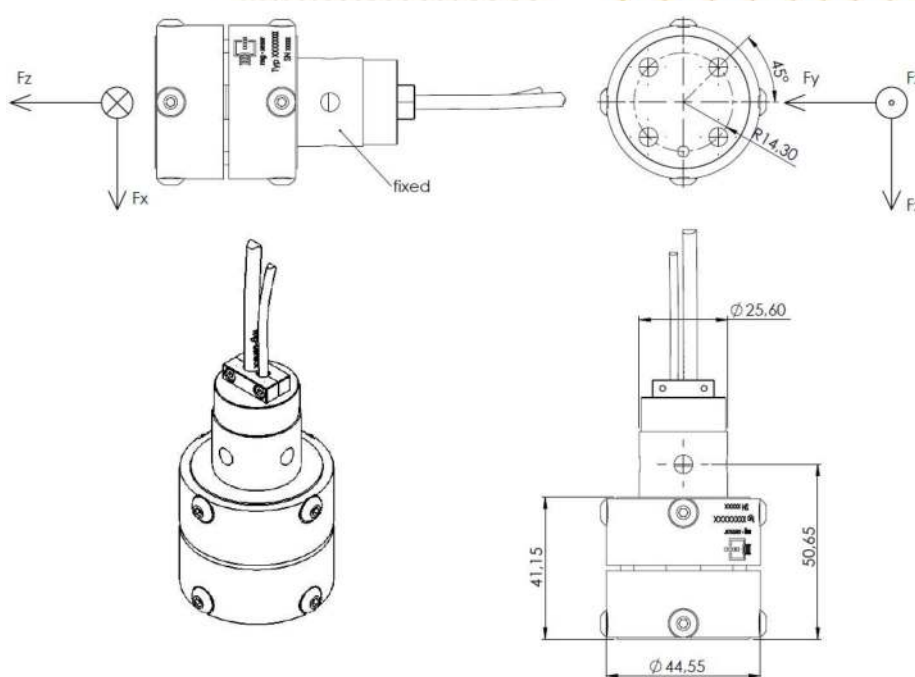
N3AUA11A

Dummy side view see page 112

Description	Load Cell, 3-axial Tibia, Upper		
Measuring range <i>Fz</i> <i>Mx/My</i>	kN Nm	11,1 395/395	
Sensitivity ¹⁾ <i>Fz</i> <i>Mx/My</i>	$\mu\text{V/V/kN}$ $\mu\text{V/V/Nm}$	90 7,6/7,6	
Output signal ^{1), 2)} <i>Fz/Mx/My</i>	mV/V	1,0/3,0/3,0	
Bridge resistance <i>Fz/Mx/My</i>	Ω	700/350/350	
Zero signal ¹⁾	mV/V	$\leq 0,05$	
Amplitude non-linearity ³⁾	%	$\leq 1,0$	
Hysteresis ³⁾	%	$\leq 1,0$	
Channel crosstalk ³⁾	%	$\leq 5,0$	
Supply voltage	V	2–15	
Ultimate load	%	150	
Insulation resistance	M Ω	> 100	
Temperature range	°C	–30..+70	
Weight (approximate)	g	500	
Application	H3-Family, FAA, BioSID		

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

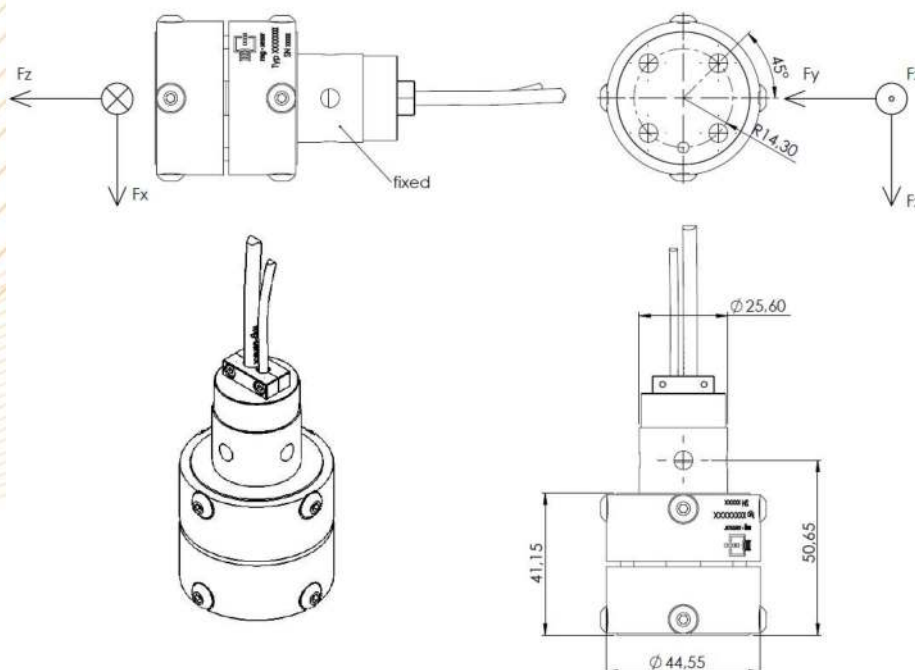
¹⁾ Typical value, ²⁾ At nominal load, ³⁾ Relative nominal range



N4AUA10A   Dummy side view see page 112	Description	Load Cell, 4-axial Tibia, Upper	
	Measuring range F_x/F_z M_x/M_y	kN Nm	11,1/11,1 395/395
	Sensitivity ¹⁾ F_x/F_z M_x/M_y	$\mu\text{V/V/kN}$ $\mu\text{V/V/Nm}$	180/90 7,6/7,6
	Output signal ^{1), 2)} $F_x/F_z/M_x/M_y$	mV/V	2,0/1,0/3,0/3,0
	Bridge resistance $F_x/F_z/M_x/M_y$	Ω	350/700/350/350
	Zero signal ¹⁾	mV/V	$\leq 0,05$
	Amplitude non-linearity ³⁾	%	$\leq 1,0$
	Hysteresis ³⁾	%	$\leq 1,0$
	Channel crosstalk ³⁾	%	$\leq 5,0$
	Supply voltage	V	2–15
	Ultimate load	%	150
	Insulation resistance	M Ω	> 100
	Temperature range	°C	–30..+70
	Weight (approximate)	g	500
	Application	H3-Family, FAA, BioSID	

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

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



N5AUA11A

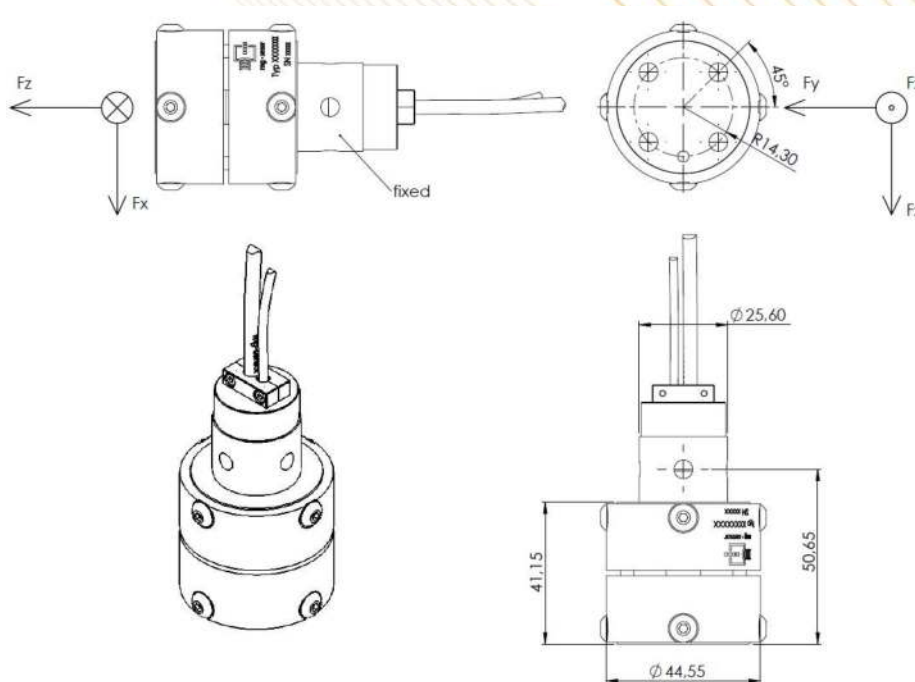


Dummy side view see page 112

Description	Load Cell, 5-axial Tibia, Upper	
Measuring range <i>F_x/F_y/F_z</i> <i>M_x/M_y</i>	kN Nm	11,1/11,1/11,1 395/395
Sensitivity ¹⁾ <i>F_x/F_y/F_z</i> <i>M_x/M_y</i>	μV/V/kN μV/V/Nm	180/180/90 7,6/7,6
Output signal ^{1), 2)} <i>F_x/F_y/F_z/M_x/M_y</i>	mV/V	2,0/2,0/1,0/3,0/3,0
Bridge resistance <i>F_x/F_y/F_z/M_x/M_y</i>	Ω	350/350/700/350/350
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
Application	H3-Family, FAA, SIDIIs, BioSID	

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

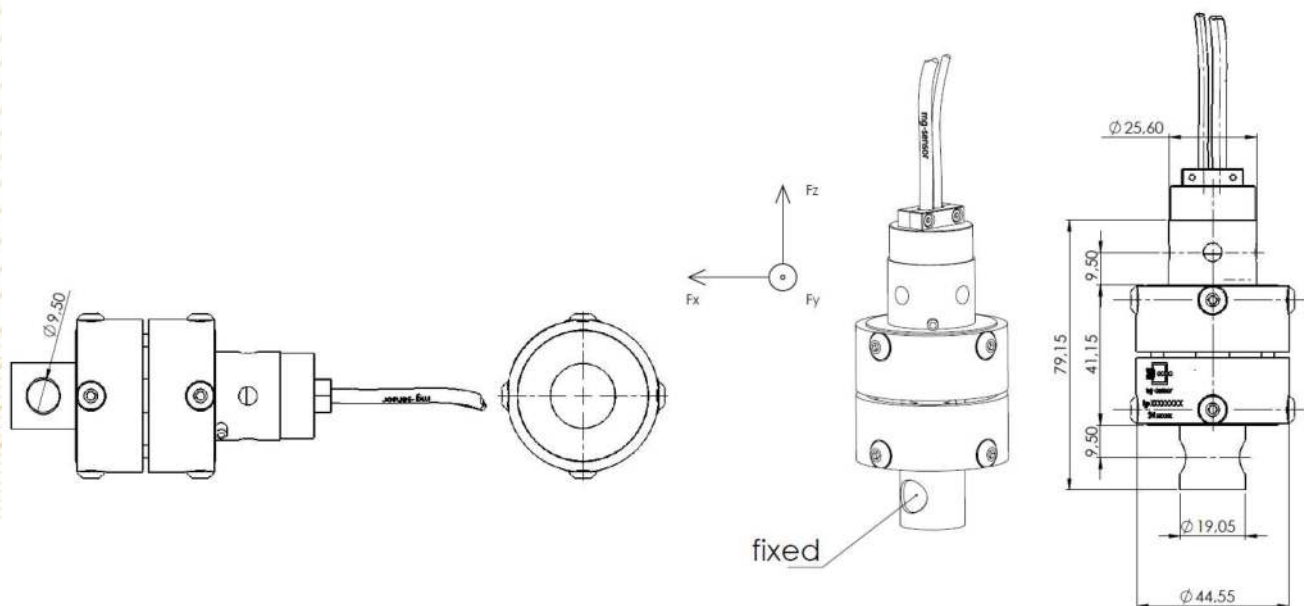
¹⁾ Typical value, ²⁾ At nominal load, ³⁾ Relative nominal range



N4ATA10A   Dummy side view see page 112	Description	Load Cell, 4-axial Tibia, Lower	
	Measuring range <i>F_x/F_z</i> <i>M_x/M_y</i>	kN Nm	11,1/11,1 395/395
	Sensitivity ¹⁾ <i>F_x/F_z</i> <i>M_x/M_y</i>	μV/V/kN μV/V/Nm	180/90 7,6/7,6
	Output signal ^{1), 2)} <i>F_x/F_z/M_x/M_y</i>	mV/V	2,0/1,0/3,0/3,0
	Bridge resistance <i>F_x/F_z/M_x/M_y</i>	Ω	350/700/350/350
	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
	Application	H3-Family, FAA, BioSID	

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

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



N5ATA11A



Dummy side view see page 112

Description	Load Cell, 5-axial Tibia, Lower	
Measuring range <i>F_x/F_y/F_z</i> <i>M_x/M_y</i>	kN Nm	11,1/11,1/11,1 395/395
Sensitivity ¹⁾ <i>F_x/F_y/F_z</i> <i>M_x/M_y</i>	μV/V/kN μV/V/Nm	180/180/90 7,6/7,6
Output signal ^{1), 2)} <i>F_x/F_y/F_z/M_x/M_y</i>	mV/V	2,0/2,0/1,0/3,0/3,0
Bridge resistance <i>F_x/F_y/F_z/M_x/M_y</i>	Ω	350/350/700/350/350
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
Application	H3-Family, FAA, SIDIIs, BioSID	

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

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

