

PROJECT # 200603-1

3rd ANGLE PROJECTION

sheet 1 of 3

DESCRIPTION	INITIATOR	DATE
Production Release	VV	06/01/2023

SCALE	SIZE	DRAWING NUMBER	REVISION
1:2	В	9630-05-0010	01

Axia130-M125 F/T Sensor							
Loading Characteristics	Fxy	Fz	Тху	Tz			
Rated Range	± 2000 N	± 4000 N	± 125 Nm	± 125 Nm			
Overload Rating	± 10000 N	± 20000 N	± 620 Nm	± 620 Nm			
Effective Resolution	.625N	0.625N	0.025Nm	0.025Nm			
Stiffness (Calculated)							
X-Axis & Y-Axis Forces (Kx, Ky)	5.8x10 ⁷ №m						
Z-Axis Force (Kz)	8.9x10 ⁷ №m						
X-Axis & Y-Axis Torques (Ktx, Kty)	s & Y-Axis Torques (Ktx, Kty) 1.2x10 ⁵ Nm/rad						
Z-Axis Torque (Ktz)	2.1x10 ⁵ Nm/rad						
Resonant Frequency (Sensor Onl	y)						
Fx, Fy, Tz	2500 Hz						
Fz, Tx, Ty	4000 Hz						
Physical Specifications (Sensor Only)							
Center of Mass*	X = -0.15mm	Y = -3.92mm	Z =	0.8mm			
Material	Aluminum						
Weight	0.86 kg						

	xia125-M300	F/T Senso
Loading Characteristics	Fxy	Fz
Rated Range	± 4000 N	± 6000 N
Overload Rating	± 20000 N	± 30000
Effective Resolution	1.667N	1.667N
Stiffness (Calculated)		
X-Axis & Y-Axis Forces (Kx, Ky	1.5x10 ⁸ N/m	
Z-Axis Force (Kz)	2.2x10 ⁸ N/m	
X-Axis & Y-Axis Torques (Ktx,	2.8x10 ⁵ Nm/ra	ad
Z-Axis Torque (Ktz)	6.0x10 ⁵ Nm/ra	ad
Resonant Frequency (Senso	r Only)	
Fx, Fy, Tz	2450 Hz	
Fz, Tx, Ty	2900 Hz	
Physical Specifications (Sen	sor Only)	
Center of Mass*	X = -0.8mm	Y = -0.08
Material	Stainless Stee	el
Weight	1.88 kg	

Operational Specifications (All Sensor Models)					
Communication	RS422				
Supply Voltage	12-30V DC				
Maximum Power Consumption	1.7W				
System Resolution	16 Bit				
Max Data Rate	4kHz				
Operating Temperature	0-65°C				
IP Rating	IP67				

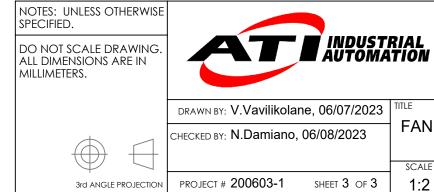
NOTES: UNLESS OTHERWISE SPECIFIED. 1031 Goodworth Drive, Apex, NC 27539, USA Tel: +1.919.772.0115 www.ati-ia.com Fax: +1.919.772.8259 ISO 9001 Registered Company INDUSTRIAL AUTOMATION DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS. PROPERTY OF ATI INDUSTRIAL AUTOMATION, INC. NOT TO BE REPRODUCED IN ANY MANNER EXCEPT ON ORDER OR WITH PRIOR WRITTEN AUTHORIZATION OF ATI. DRAWN BY: V.Vavilikolane, 06/07/2023 FANUC F/T Kits for Axia130 Transducer CHECKED BY: N.Damiano, 06/08/2023 \oplus SCALE PROJECT # 200603-1 1:2 3rd ANGLE PROJECTION Sheet 2 of 3

*Measurements taken from Sensing Reference Frame Origin

or		
	Тху	Tz
N	± 300 Nm	± 300 Nm
Ν	± 1500 Nm	± 1500 Nm
	0.07Nm	0.07Nm
8mm	Z = -0	30mm
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				Boss Size	Recess Size	Bolt Circle		Robot Fastener Torque	Sensor Frame Z+ Offset	Through-Hole	
		Name	Interface Plate #	mm (d X h)	mm (d x h)	mm	Robot Fastener	Nm	mm	mm	Material
	Axia130-M125	9105-FTKIT-FANUC-BC40-AXIA130-M125	9105-IP-2350	Ø 25 X 5	-	40	7X M6	10	53.75	None	Aluminum
		9105-FTKIT-FANUC-BC56-AXIA130-M125	9105-IP-2349	-	Ø 62 X 5	56	14X M4	3	53.75	50	Aluminum
		9105-FTKIT-FANUC-BC64-AXIA130-M125	9105-IP-2351	-	-	64	14X M4	3	53.75	50	Aluminum
	Axia130-M300	9105-FTKIT-FANUC-BC100-AXIA130-M300	9105-IP-2352	-	-	100	10X M8	21	53.75	50	Stainless Steel
		9105-FTKIT-FANUC-BC125-AXIA130-M300	9105-IP-2435	-	-	125	8X M10	47	59.64	50	Stainless Steel



5. All kits will come with 6X M8 sensor fasteners to attach the sensor to the interface plate. These fasteners should be torqued to 28Nm.

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FANUC F/T Kits for Axia130 Transducer

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