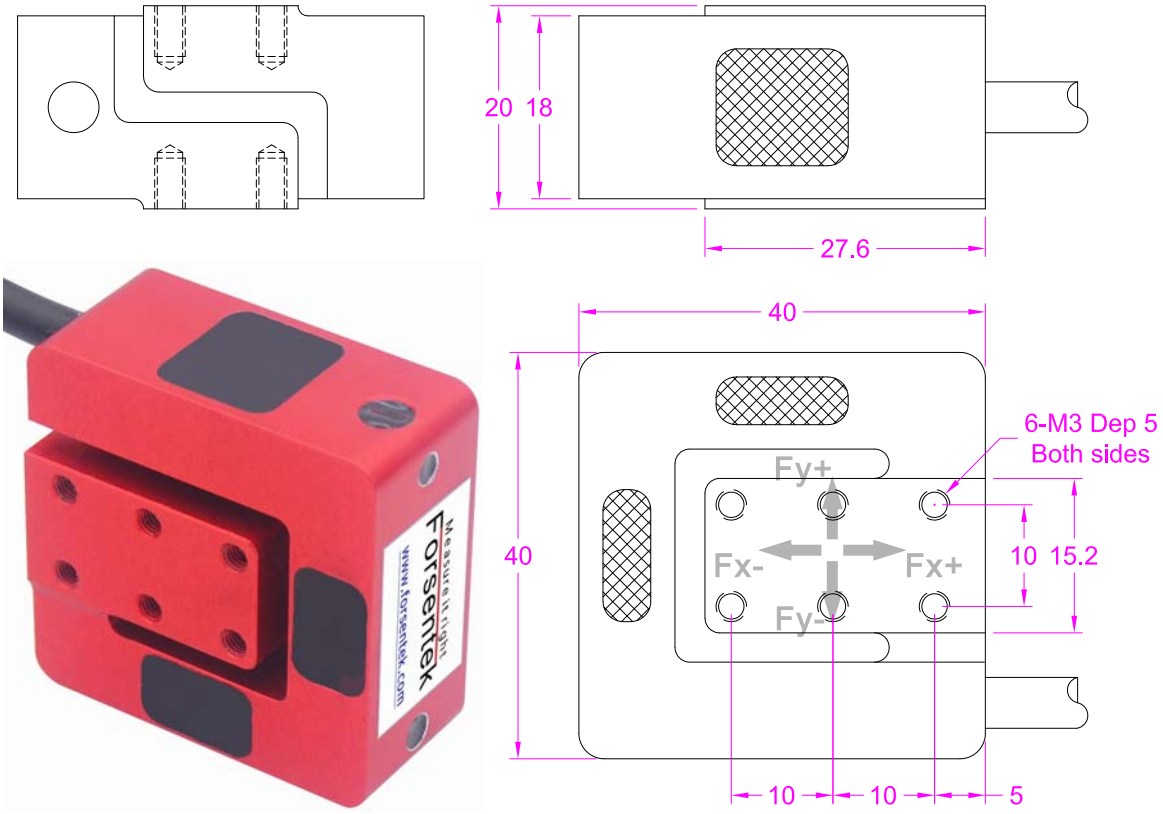
Dimensions in “mm”



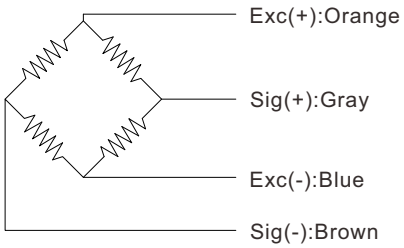
--- Specifications ---

Capacity	Fx=Fy=Fz---10/20/50/100/200/500/1k N		
Rated Output	1.0 mV/V	Crosstalk	<3% of F.S.
Excitation	3~15V	Operating Temp.	-10...+60°C
Zero Balance	±0.05mV/V	Temp. Shift Zero	±0.03% of R.O./°C
Nonlinearity	±0.3% of R.O.	Temp. Shift Span	±0.02% of R.O./°C
Hysteresis	±0.3% of R.O.	Input Resistance	1000±100Ω
Nonrepeatability	±0.1% of R.O.	Output Resistance	1000±100Ω
Creep(3min)	±0.2% of R.O.	Insulation Resistance	>2000MΩ(50V)
Safe Overload	150% of F.S.	Ingress Protection	IP62
Ultimate Overload	200% of F.S.	Material of Element	Refer to ordering code
Cable	Ø5*3000mm 12-pin shielded cable		
R.O.=Rated Output / F.S.=Full Scale			

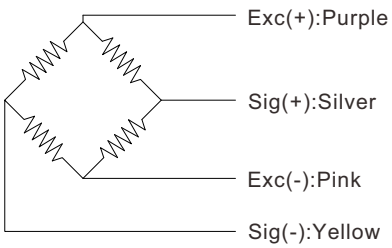
• Subject to change without notice

Wiring Diagram

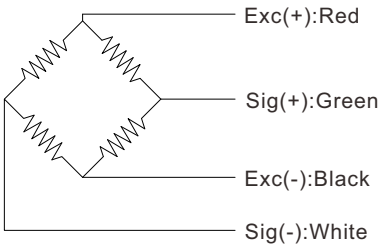
X-axis



Y-axis



Z-axis



Ordering code

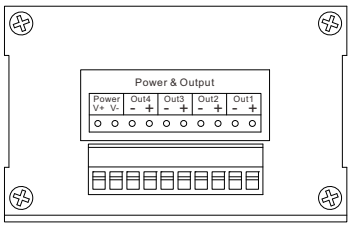
Part No.	Capacity Fx=Fy=Fz	Material
F3N-10N	10N	Aluminum (Red anodized)
F3N-20N	20N	
F3N-50N	50N	
F3N-100N-A	100N	
F3N-200N-A	200N	
F3N-100N-S	100N	Stainless steel
F3N-200N-S	200N	
F3N-500N	500N	
F3N-1kN	1kN	

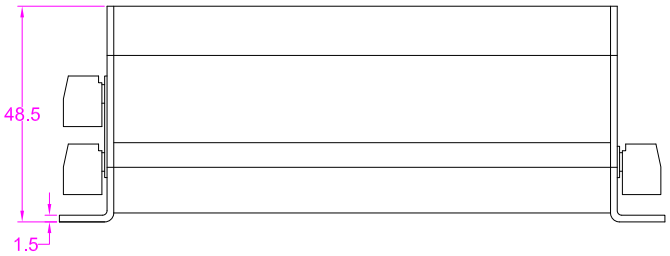
Measure it right
Forsentek

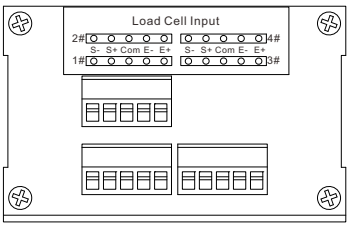
Weighing || Measuring || Controlling

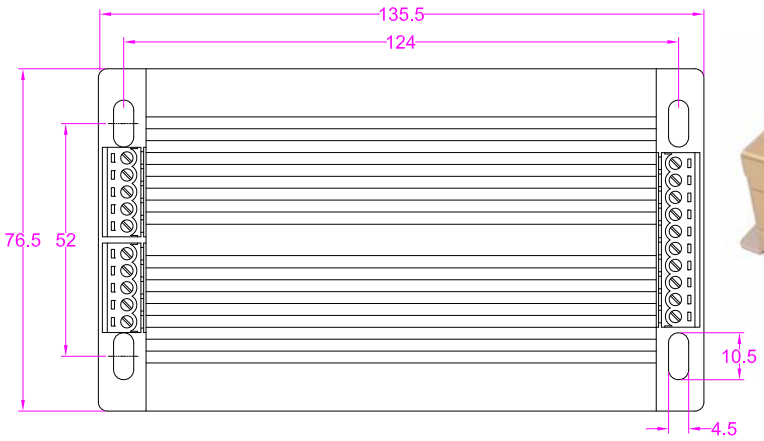
Model:LC3A

3-Channel load cell amplifier









CE

Ordering Code

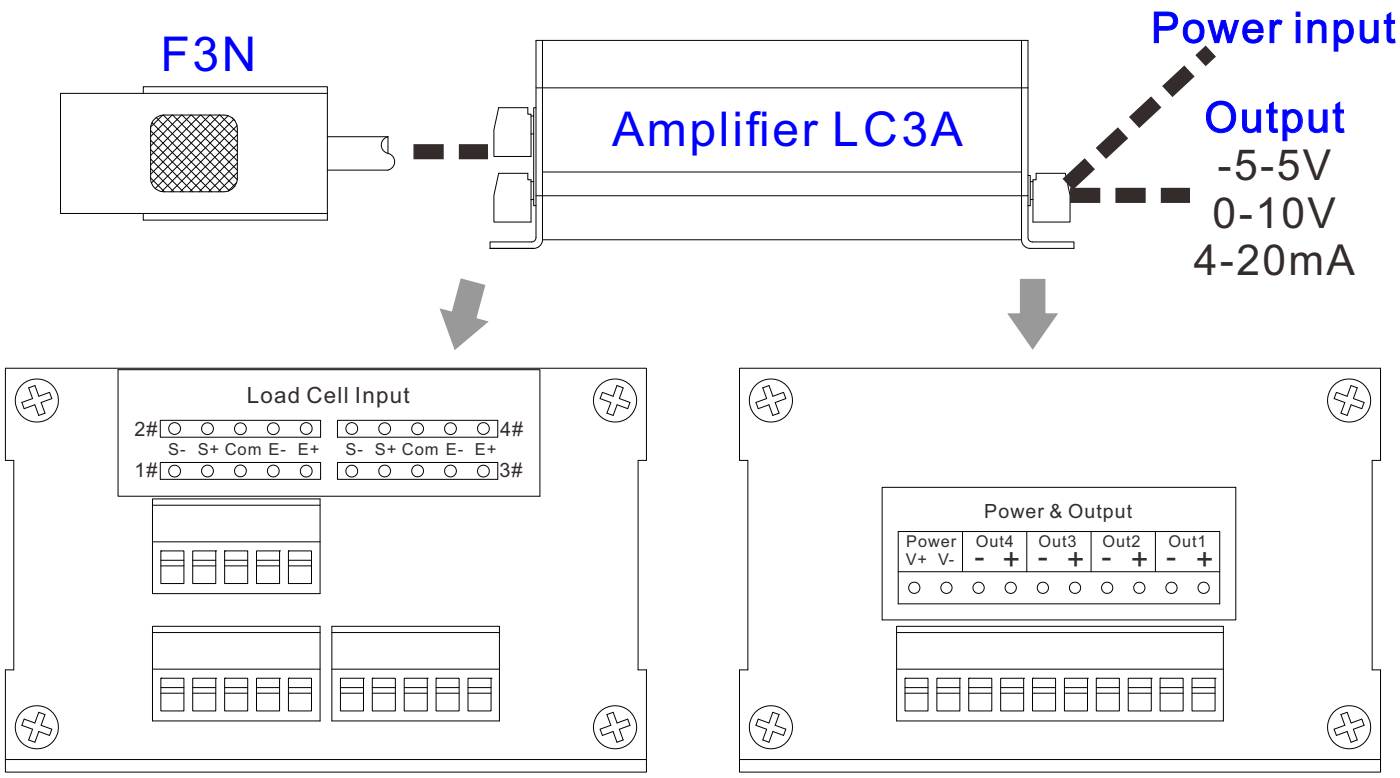
For compression only (Or tension only)		For tension and compression (Or clockwise and CCW)	
24V Power supply	12V Power supply	24V Power supply	12V Power supply
LC3A(0-3.3V)-24V	LC3A(0-3.3V)-12V	LC3A(0-1.5-3V)-24V	LC3A(0-1.5-3V)-24V
LC3A(0-5V)-24V	LC3A(0-5V)-12V	LC3A(0-2.5-5V)-24V	LC3A(0-2.5-5V)-12V
LC3A(0-10V)-24V	LC3A(0-10V)-12V	LC3A(0-5-10V)-24V	LC3A(0-5-10V)-12V
LC3A(0-20mA)-24V	LC3A(0-20mA)-12V	LC3A(-5-5V)-24V	LC3A(-5-5V)-12V
LC3A(4-20mA)-24V	LC3A(4-20mA)-12V	LC3A(-10-10V)-24V	LC3A(-10-10V)-12V
/	/	LC3A(4-12-20mA)-24V	LC3A(4-12-20mA)-12V
Consult us for other outputs			

--- Specifications ---

Function	Turn mV signal into V or mA signal
Accuracy	0.15%
Power supply	24V DC or 12V DC
Excitation for load cell	5V DC
Input signal range	0.6~3.0mV/V
Output signal	Refer to ordering code
Working Temp.	-10...+60°C
Material of enclosure	Aluminum alloy
Ingress protection	IP40

- Subject to change without notice

Wiring example between F3N and amplifier LC3A



Wiring code

1# terminal connects with Fx channel			
E+	Orange	E-	Blue
S+	Gray	S-	Brown
2# terminal connects with Fy channel			
E+	Purple	E-	Pink
S+	Silver	S-	Yellow
3# terminal connects with Fz channel			
E+	Red	E-	Black
S+	Green	S-	White

Power			
V+	Power+	V-	Power-
Out1 @ Fx output			
+	Output+	-	Output-
Out2 @ Fy output			
+	Output+	-	Output-
Out3 @ Fz output			
+	Output+	-	Output-

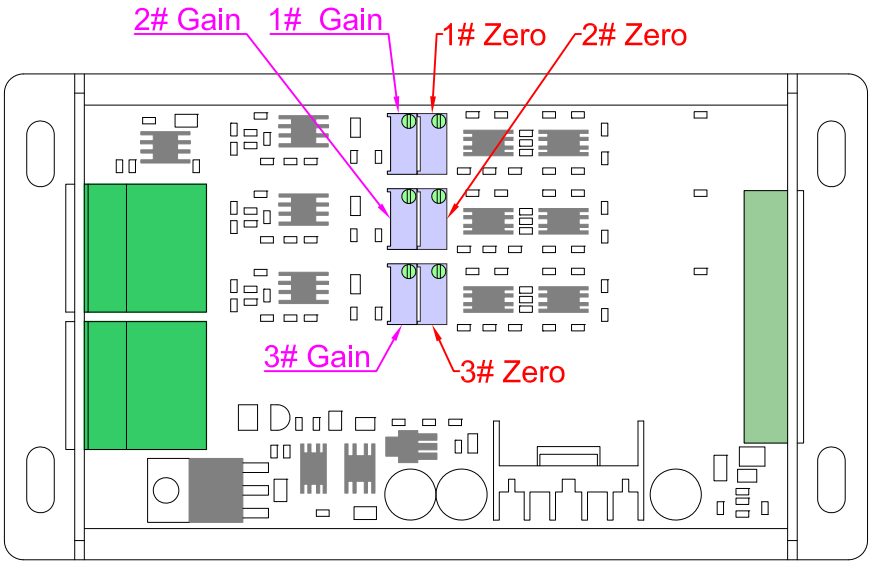
Calibration instructions of F3N and LC3A

Before operation,clients need to prepare:

1-Power supply for LC3A
2-4 x 2-core cables for power input and signal output
3-Multimeter to measure the output signal from LC3A
4-Reference load and necessary tools for calibration
5-Screw drivers to open the cover plate of LC3A and adjust the potentiometers during calibration

1-Wiring(Refer to P-4/5)

2-Open the top cover plate of LC3A,you'll see below view:



3-Calibration of Fx channel

3.1-Measuring the output signal from Out1 of LC3A using a multimeter.
3.2-Applying 0 load to Fx direction,adjust potentiometer "**1# Zero**" to get desired output.
3.3-Applying reference load to Fx direction,adjust potentiometer "**1# Gain**" to get desired output.
3.4-Repeat step 3.2 and 3.3 for 2-3 times to get better result.

4-Calibration of Fy channel

4.1-Measuring the output signal from Out2 of LC3A using a multimeter.
4.2-Applying 0 load to Fy direction,adjust potentiometer "**2# Zero**" to get desired output.
4.3-Applying reference load to Fy direction,adjust potentiometer "**2# Gain**" to get desired output.
4.4-Repeat step 4.2 and 4.3 for 2-3 times to get better result.

5-Calibration of Fz channel

5.1-Measuring the output signal from Out3 of LC3A using a multimeter.
5.2-Applying 0 load to Fz direction,adjust potentiometer "**3# Zero**" to get desired output.
5.3-Applying reference load to Fz direction,adjust potentiometer "**3# Gain**" to get desired output.
5.4-Repeat step 5.2 and 5.3 for 2-3 times to get better result.

6-Install the top cover plate of LC3A