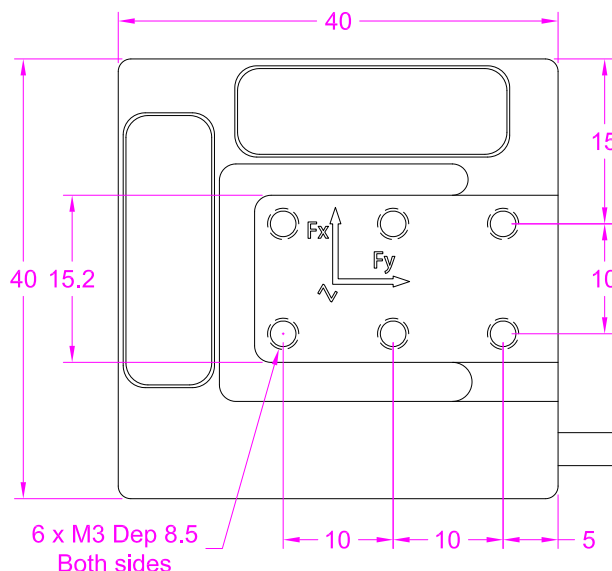
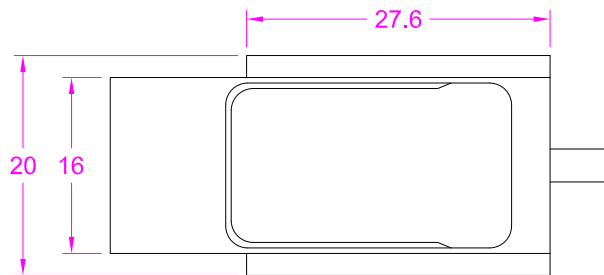
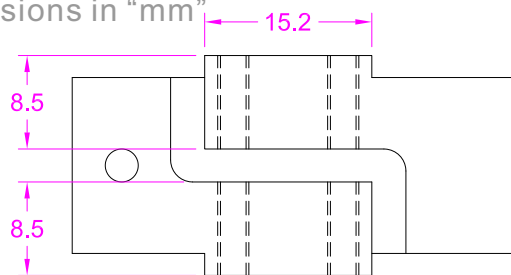


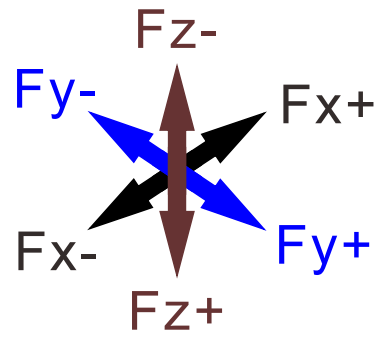
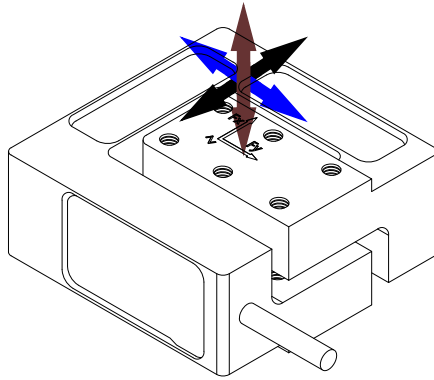


--- Specifications ---

Capacity	Fx=Fy=Fz---10/20 N		
Rated Output	1.0 mV/V	Compensated Temp.	0...+40°C
Excitation	3~12V	Operating Temp.	-10...+60°C
Zero Balance	±0.1mV/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	170±10Ω
Nonrepeatability	±0.1% of R.O.	Output Resistance	500±20Ω
Creep(3min)	±0.2% of R.O.	Insulation Resistance	>2000MΩ(50V)
Safe Overload	150% of F.S.	Ingress Protection	IP40
Ultimate Overload	200% of F.S.	Material of Element	Aluminum
Cable	Ø3*3000mm 8-pin shielded cable		
R.O.=Rated Output F.S.=Full Scale			

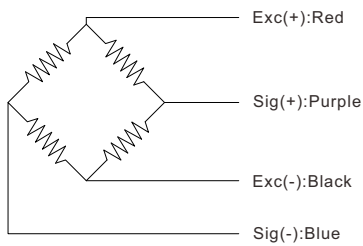
• Subject to change without notice

Load direction

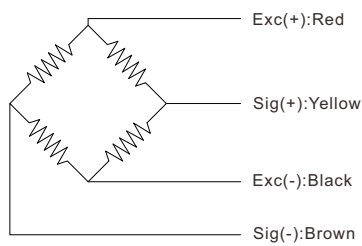


Wiring Code

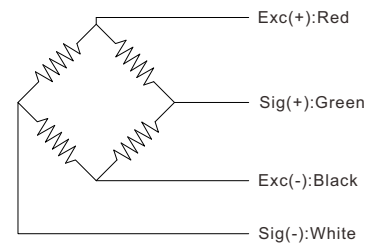
X-axis



Y-axis



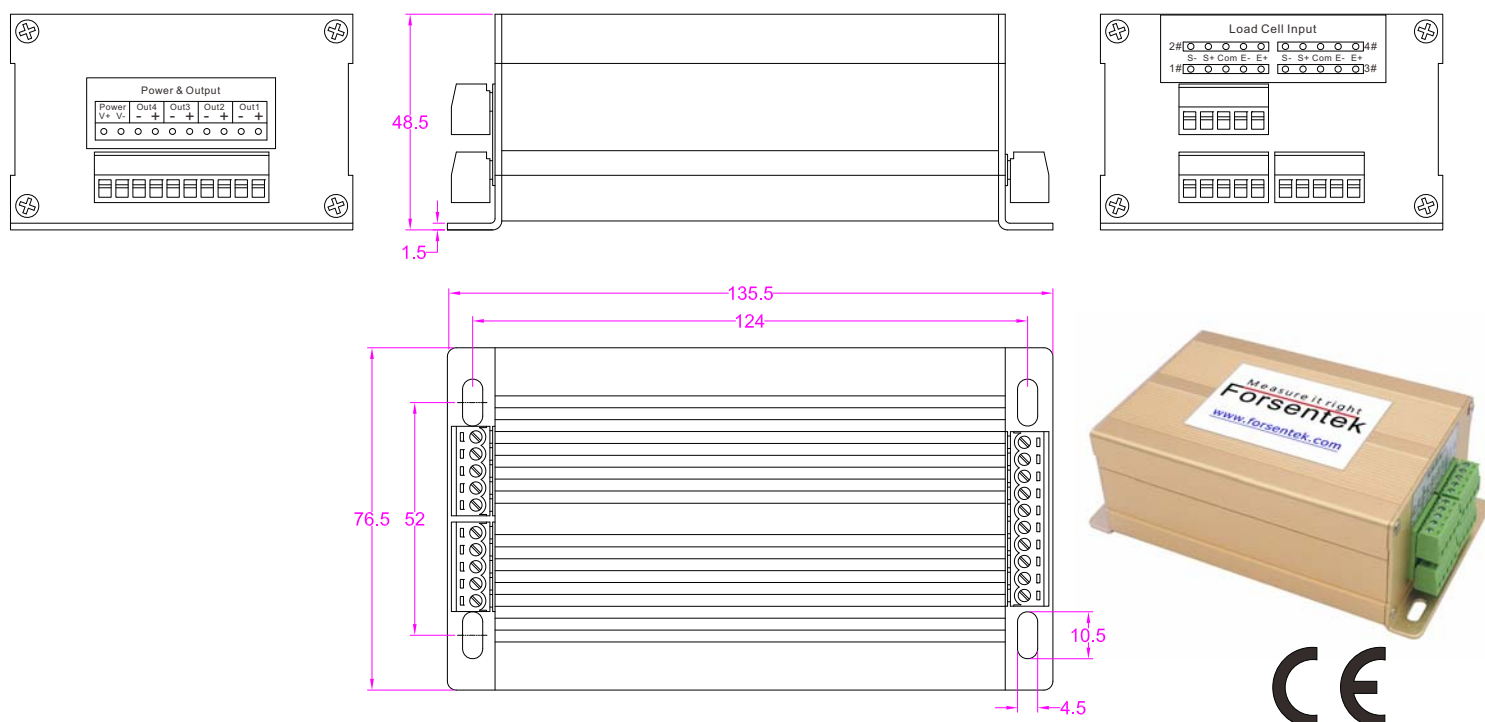
Z-axis



Ordering code

Part No.	Capacity
	$F_x = F_y = F_z$
F3W-10N	10N
F3W-20N	20N

3-Channel load cell amplifier



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)-12V
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			

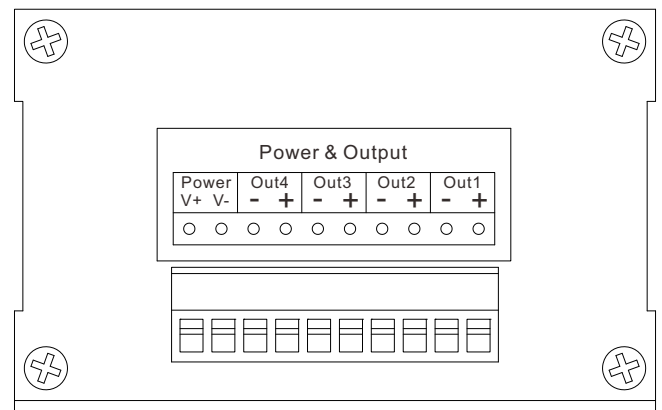
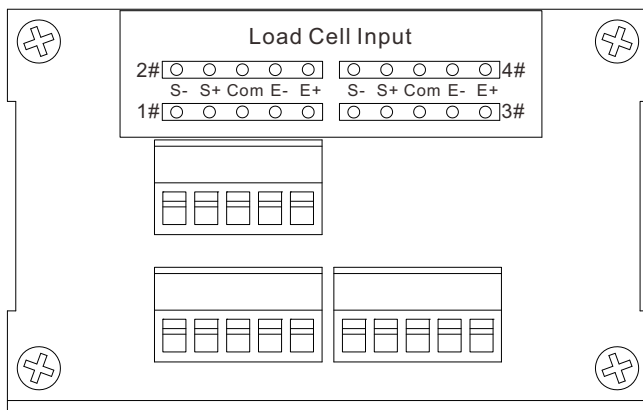
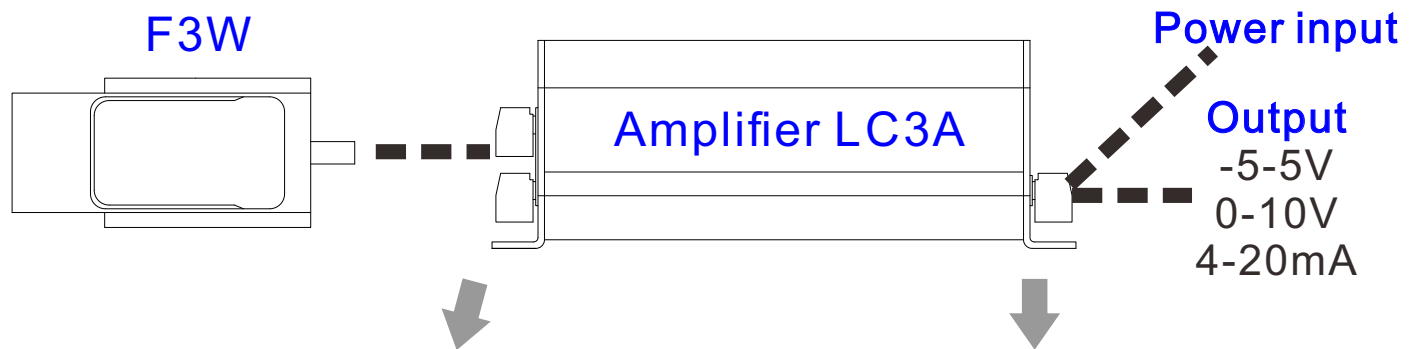
--- Specifications / 规格参数 ---

Function/功能	Turn mV signal into V or mA signal 将mV信号放大成V或mA信号
Accuracy/精度	0.15%
Power supply/供电电压	24V DC or 12V DC
Excitation for load cell/传感器激励电压	5V DC
Input signal range/输入信号范围	0.6~3.0mV/V
Output signal/输出信号	Refer to ordering code
Working Temp./工作温度	-10...+60°C
Material of enclosure/外壳材料	Aluminum alloy/铝合金
Ingress protection/防护等级	IP40

• Subject to change without notice / 如有更改,不另行通知

P-3/5

Wiring example between F3W and amplifier LC3A



Wiring code

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

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

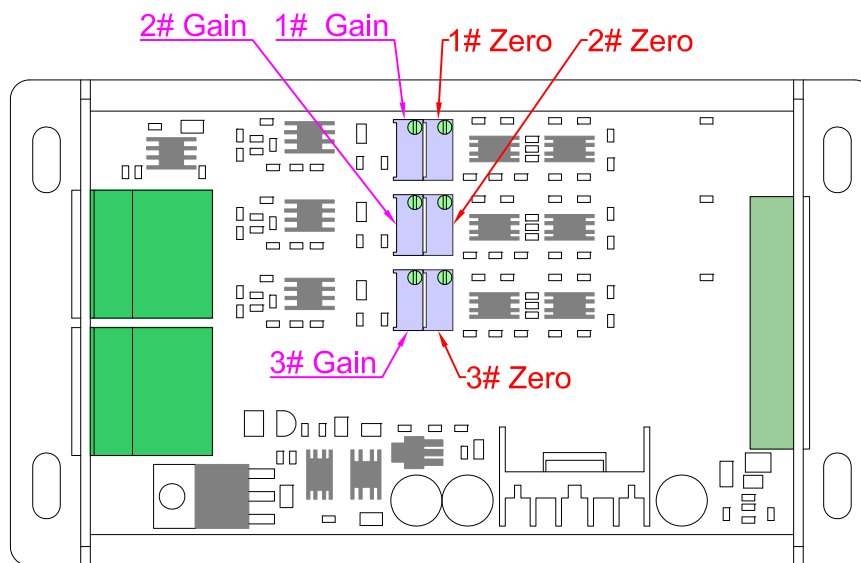
Calibration instructions of F3W and LC3A

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