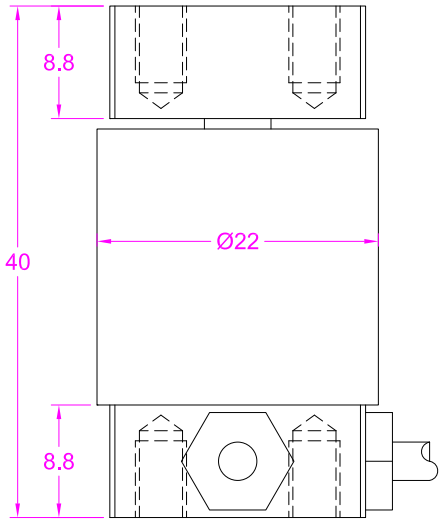
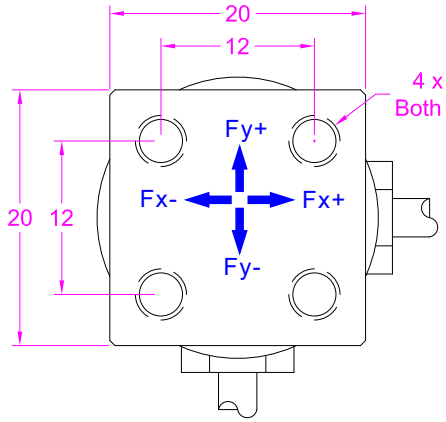
Dimensions in “mm”

Customizable

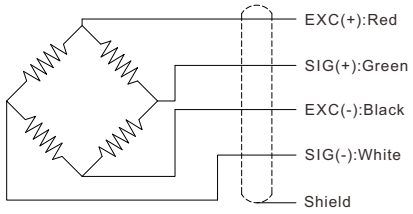


Ordering Code:

Part No.	Capacity Fx=Fy	Material
F2Y-1kg	1kg	Aluminum
F2Y-2kg	2kg	
F2Y-5kg	5kg	
F2Y-10kg	10kg	Stainless steel
F2Y-20kg	20kg	
F2Y-30kg	30kg	
F2Y-50kg	50kg	
F2Y-100kg	100kg	



Wiring Diagram

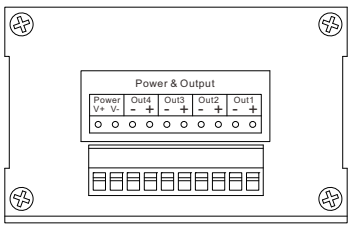


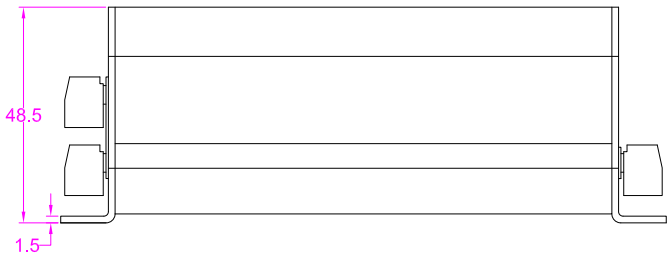
--- Specifications ---

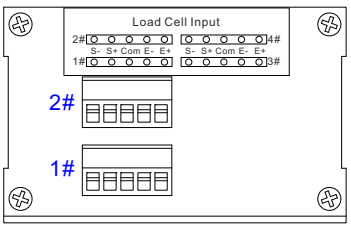
Capacity	1/2/5/10/20/30/50/100kg		
Rated Output	1.0~1.5 mV/V	Compensated Temp.	0...+40°C
Excitation	3~12V	Operating Temp.	-10...+60°C
Zero Balance	±0.05mV/V	Temp. Shift Zero	±0.03% of R.O./°C
Nonlinearity	±0.2% of R.O.	Temp. Shift Span	±0.02% of R.O./°C
Hysteresis	±0.2% of R.O.	Input Resistance	380±30Ω
Nonrepeatability	±0.1% of R.O.	Output Resistance	350±30Ω
Creep(5min)	±0.1% of R.O.	Insulation Resistance	>2000MΩ(50V)
Safe Overload	150% of F.S.	Ingress Protection	IP50
Ultimate Overload	200% of F.S.	Material of Element	Refer to ordering code
Cable	2 x Ø3*3000mm 4-core shielded cable		
R.O.=Rated Output / F.S.=Full Scale			

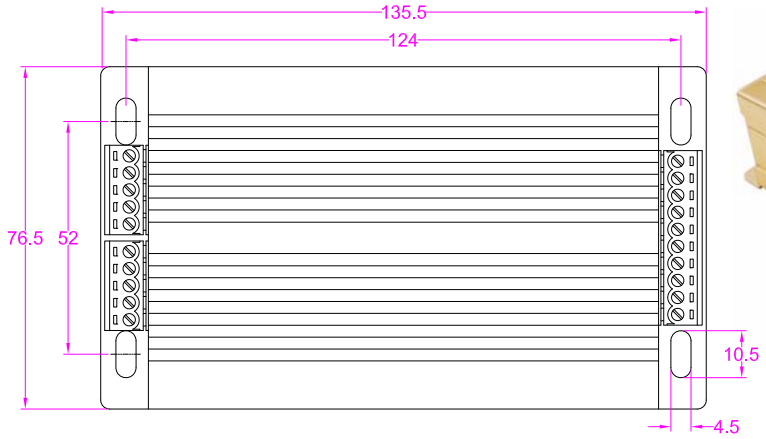
• Subject to change without notice

2-Channel load cell amplifier LC2A









Ordering Code

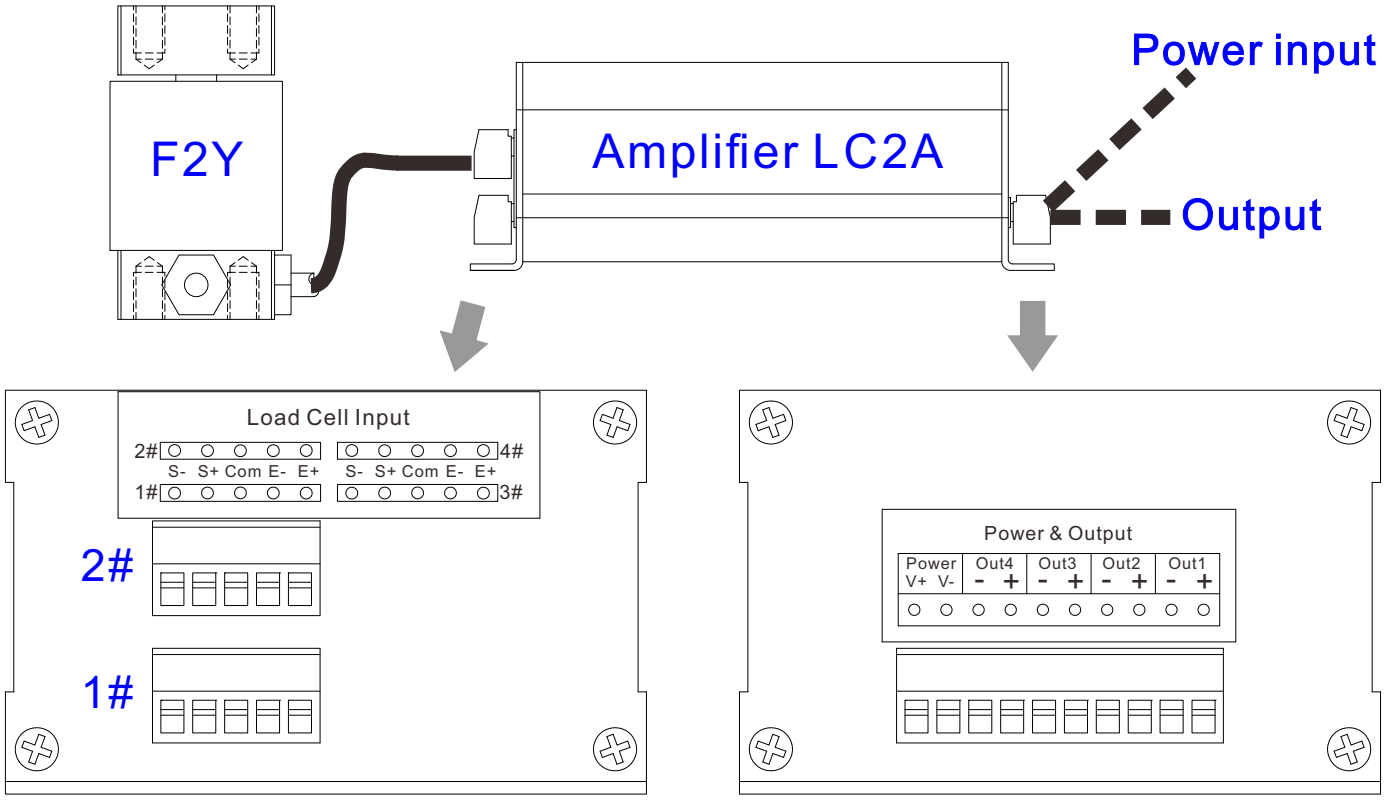
For compression only (Or tension only)		For tension and compression (Or clockwise and CCW)	
24V Power supply	12V Power supply	24V Power supply	12V Power supply
LC2A(0-3.3V)-24V	LC2A(0-3.3V)-12V	LC2A(0-2.5-5V)-24V	LC2A(0-2.5-5V)-12V
LC2A(0-5V)-24V	LC2A(0-5V)-12V	LC2A(0-5-10V)-24V	LC2A(0-5-10V)-12V
LC2A(0-10V)-24V	LC2A(0-10V)-12V	LC2A(-5-5V)-24V	LC2A(-5-5V)-12V
LC2A(0-20mA)-24V	LC2A(0-20mA)-12V	LC2A(-10-10V)-24V	LC2A(-10-10V)-12V
LC2A(4-20mA)-24V	LC2A(4-20mA)-12V	LC2A(4-12-20mA)-24V	LC2A(4-12-20mA)-12V

--- 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 F2Y and amplifier LC2A



Wiring code

1# terminal connects with Fx channel			
E+	Red	E-	Black
S+	Green	S-	White
2# terminal connects with Fy channel			
E+	Red	E-	Black
S+	Green	S-	White

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

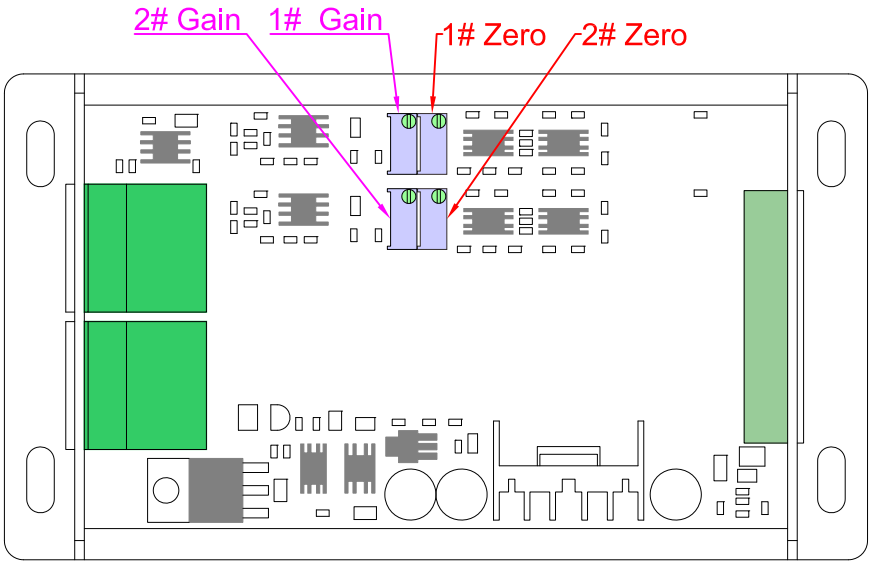
Calibration instructions of F2Y and LC2A

Before operation,clients need to prepare:

1-Power supply for LC2A
2-3 x 2-core cables for power input and signal output
3-Multimeter to measure the output signal from LC2A
4-Reference load and necessary tools for calibration
5-Screw drivers to open the cover plate of LC2A and adjust the potentiometers during calibration

1-Wiring(Refer to P-3/4)

2-Open the top cover plate of LC2A,you'll see below view:



3-Calibration of Fx channel

3.1-Measuring the output signal from Out1 of LC2A 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 LC2A 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-Install the top cover plate of LC2A