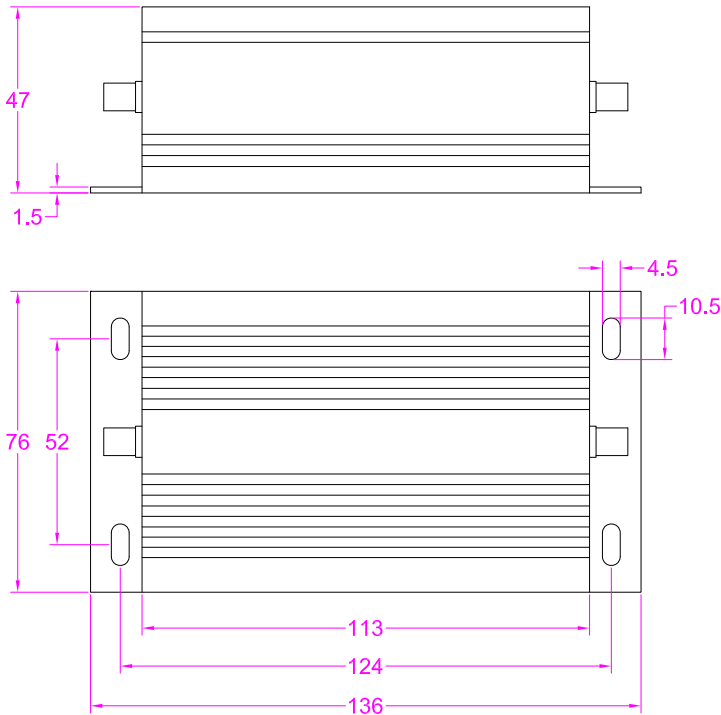


**Load cell signal amplifier FSC**



- Mating connectors provided/提供配套接头
- Adjustable gain/增益可调

| Ordering Code                             |                  |   |                    |
|---|------------------|---|--------------------|
| For compression only<br>(Or tension only) |                  | For tension and compression<br>(Or clockwise and CCW) |                    |
| 24V Power supply                          | 12V Power supply | 24V Power supply                                      | 12V Power supply   |
| FSC(0-3.3V)-24V                           | FSC(0-3.3V)-12V  | FSC(0-1.5-3V)-24V                                     | FSC(0-1.5-3V)-12V  |
| FSC(0-5V)-24V                             | FSC(0-5V)-12V    | FSC(0-2.5-5V)-24V                                     | FSC(0-2.5-5V)-12V  |
| FSC(0-10V)-24V                            | FSC(0-10V)-12V   | FSC(0-5-10V)-24V                                      | FSC(0-5-10V)-12V   |
| FSC(0-20mA)-24V                           | FSC(0-20mA)-12V  | FSC(-5-5V)-24V  | FSC(-5-5V)-12V     |
| FSC(4-20mA)-24V                           | FSC(4-20mA)-12V  | FSC(-10-10V)-24V                                      | FSC(-10-10V)-12V   |
| /   | /                | FSC(4-12-20mA)-24V                                    | FSC(4-12-20mA)-12V |

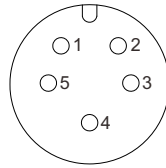
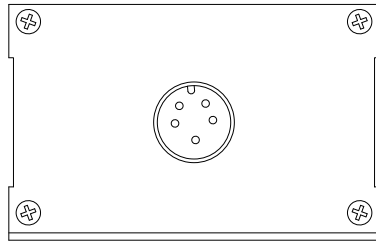
**- Specifications -**

| Function/功能                | Turn mV signal into V or mA signal<br>将mV信号放大成V或mA信号   |
|----------------------------|--|
| Accuracy/精度                | 0.1%   |
| Power supply/供电电压          | 24V DC or 12V 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 environment/工作环境   | -10...+60°C, <90%RH  |
| Material of enclosure/外壳材料 | Aluminum alloy/铝合金   |
| Ingress protection/防护等级    | IP50   |
| Cable length/导线长度          | Ø5*1000mm with mating connector<br>1m导线含配套接头   |
| Wiring code/接线顺序           | 3-wire connection<br>Red--Power+ Green--Output+ Black--Power-/Output-<br>三线制: 红--电源+ 绿--信号+ 黑--电源-/信号- |

• Subject to change without notice

# User instruction of FSC

1--Soldering the 5-pin connector to the cable of load cell, then connect the load cell to amplifier's 5-pin end



- 1--S+
- 2--E+
- 3--S-
- 4--E-
- 5--Shield

2--Plug-in the Power&Signal cable to the amplifier's 4-pin end

3--Power the amplifier with 24V DC (or 12V DC depending on the part No. you choose), using a multimeter to measure the output signal from the amplifier. The wiring code of power&output is as follows:

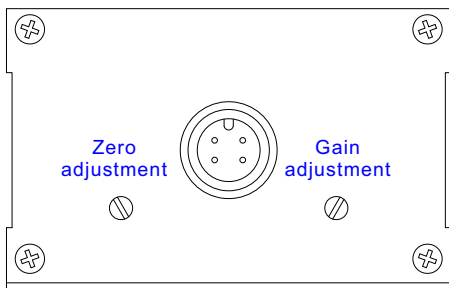
Red--Power+    Green--Output+    Black--Power-/Output-

4--Adding "0" load to the load cell, adjust the "Zero adjustment" potentiometer to get desired output.

5--Adding reference load to the load cell, adjust the "Gain adjustment" potentiometer to get desired output

(Note: If you cannot get the desired output by adjusting the potentiometer, you need to open the cover of the amplifier and adjust the "Gain switches".)

6--Repeat step 4 and 5 for 2-3 times to get better result.



Gain switches inside the amplifier



Power&Signal cable



## Wiring example

