

STAINLESS STEEL JUNCTION BOX MODEL AJB-015

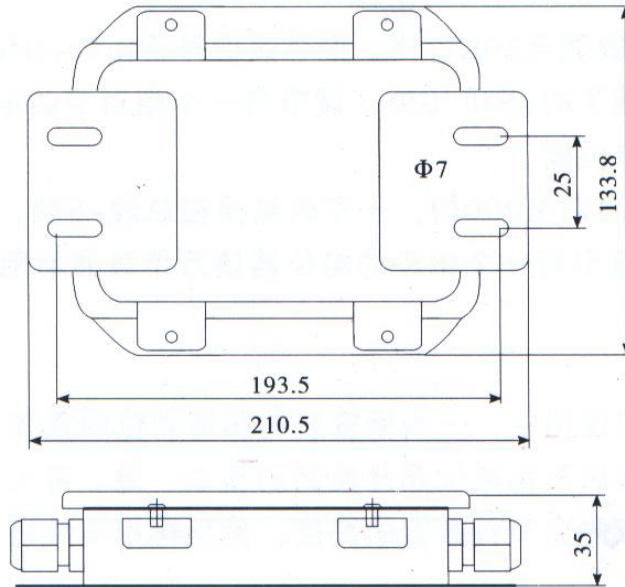
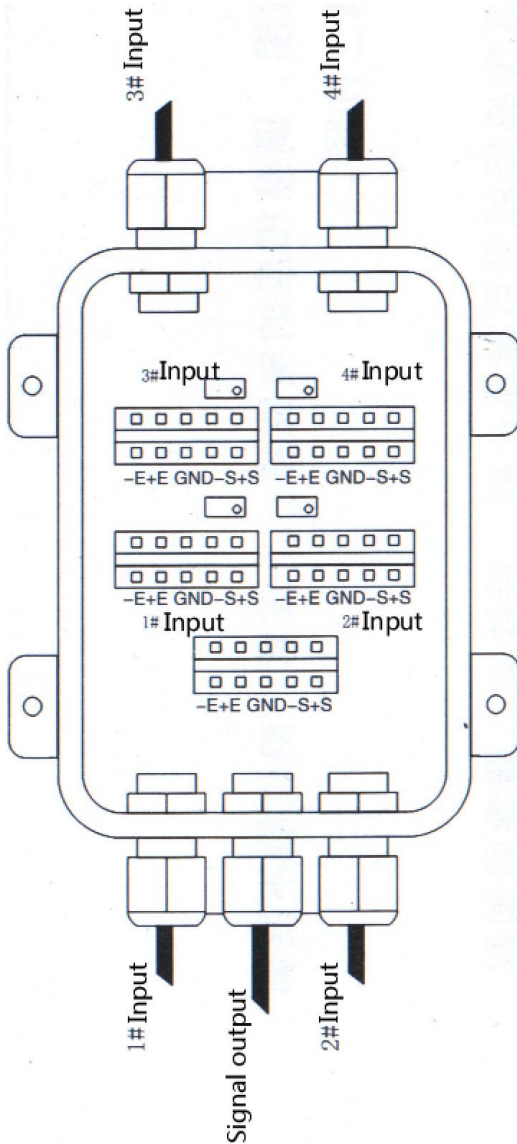
**Stainless Steel Junction Box
AJB-015**



- ★ Fine sturdy, board and connectors made of ABS plastic
- ★ Special sealing fittings
- ★ Multi-turn potentiometer of high stability to make compensations adjust
- ★ Cover with rubber gasket, waterproof, dustproof, application: rough industrial environments



Diagram & Instruction



Ends of connector	Special instruction
+E	Load cell excitation +
+S	Load cell signal +
GND	(Shielded wire)
-S	Load cell signal -
-E	Load cell excitation -
Tips: Waterproof socket spec.&model:PG9	

Junction box Installation & Adjustment

Summary

During load cells being produced, their linearity are not so perfect the same, further more, the factors from installing site and the restricted way of installation lead to off-balance while they're used in parallel. With the purpose of solving this problem, users need junction box to adjust load cell coefficient to make a consistent load cells output resistances (mv/V Ω) ratio, so as to ensure the balance of the whole scale. Adjust the mechanical platform level would lead to off-balance to the scale with four or more load cells. In this situation, potentiometer compensation is not competent at the job. So, at first, users should adjust the height of the load cells to keep the weight difference within 20~40kg, then make the potentiometer compensation adjust with the junction box, this is an iterative process. Due to the deformation of the mechanical platform, adjusting the height of one corner might affects two corners, even three, the only way is to repeated trials.

Installation

1. Fixing the junction box to a proper place of the scale and then open it.
2. Get the cables of the load cells and display through the sockets correspondingly, and according to the marks of the PCB, connecting all the wires and then tighten the ends of the connectors.
3. Do not forget to connect the shielded wire to GND ends of the junction box.

Adjustment

According to the load cell output signal strength, referring to wiring diagram, adjusting the corresponding potentiometer. (Attention: Do not go beyond its limit) When every adjusting is in position, cover the junction box and tighten it with screws.

Attentions

1. Different scales with a varying amounts of load cells and different kind, please referring to corresponding diagram.
2. All marks of E or En means Excitation power.

The methods of adjusting (Before adjusting, disconnecting all lines)

1. The type of adjusting signals: Turn Universal meter to 20K Ω and making the outputs +S -S of bus short-circuited, sequentially connecting universal meter test pens to ends +S -S of each load cells, adjusting every corresponding potentiometer to show the same number on the universal meter.
2. The type of adjusting bridge voltage: Turn Universal meter to 200, Put one test pen on bus +E, the other one sequentially on +E of each load cells, adjusting every corresponding potentiometer to show the same number on the universal meter.

Summing up

Being used on truck scale, when adjusting the four corners of the new scale, first of all, ensure that the four angle error is within the range of three dividing values, then adjust potentiometer compensation to close the same. If the error is out of the range of three dividing values, adjusting potentiometer compensation won't work, we should adjust the height of the load cells first, then adjust potentiometer compensation.