External Ratio Adjustment Connection - BSI134

This drawing applies to output option 05 on the BSI134

Notes

The range of the ratio adjustment is manufactured to the customer requirement. A typical ratio adjustment range is 0.5 to 1.5.

$$Output = Input \times Ratio$$

Example 1

Ratio adjustment range: 0.5 to 1.5
Input: 4-20mA.
Output: 4-20mA.

- When the ratio adjustment is set to the minimum (0%, ratio = 0.5)
  4 - 20mA IN results in 4 - 12mA OUT.
- When the ratio adjustment is set half way (50%, ratio = 1.0)
  4 - 20mA IN results in 4 - 20mA OUT.
- When the ratio adjustment is set to the maximum (100%, ratio = 1.5)
  4 - 14.7mA IN results in 4 - 20mA OUT.
  Inputs above 14.7mA will not increase in a linear fashion above 20mA out.

Example 2

Ratio adjustment range: 1.0 to 2.0
Input: 4-20mA.
Output: 4-20mA.

- When the ratio adjustment is set to the minimum (0%, ratio = 1.0)
  4 - 20mA IN results in 4 - 20mA OUT.
- When the ratio adjustment is set half way (50%, ratio = 1.5)
  4 - 14.7mA IN results in 4 - 20mA OUT.
- When the ratio adjustment is set to the maximum (100%, ratio = 2.0)
  4 - 12.0mA IN results in 4 - 20mA OUT.

Connection