

Output Option 5: External Ratio Adjustment. BSC133

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 4-12mA 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 Diagram

