

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

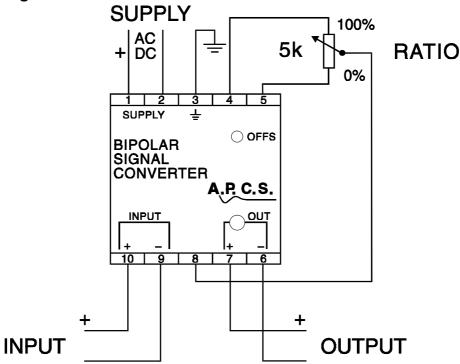
Ratio adjustment range: 1.0 to 2.0 Input: 4-20mA. Output: 4-20mA.

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



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