Precautions of using 4-20mA input signal

VFAS1/PS1 have adopted the semiconductor switch as the change function of 4-20mA current input and the voltage input of 0-10V.
When the power supply is turned off, 4-20mA input circuit will be in open state, then it will be in high impedance condition.
Therefore if the 4-20mA current generator has a wire breakage detection, it will make the wire breakage error.
When the power supply is turned on, the semiconductor switch will change in close state.
If the response of the 4-20mA current generator is not fast (0.2s or less), VFAS1/PS1 will detect over voltage and occur trip E-10, analog input terminal over-voltage.

Caution

- If you use 4-20mA current input for frequency setting, please perform the following countermeasure.
  1. When the power supply turns on/off, please turn on/off also 4-20mA current signal.
  2. Please keep a control power to VFAS1/PS1 connecting the control power supply backup option, CPS002Z, or external power supply of 24Vdc-1.05A.
  3. Connect the control power supply device between control terminal +SU and CC.

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| (3) Between VI/II and CCA of control terminals, connect the resistor of 1/2W-500ohm or 470ohms, and use VI/II terminal not as 4-20mA input but as 0-10V input. Therefore, please set the following parameter.  
  F108(analog VI/II voltage/current switching) = 0 (voltage input: default setting)  
  F201(VI/II input point 1 setting) = 20% (in case of 500 ohm)  
  19% (in case of 470 ohm)  
  F203(VI/II input point 2 setting) = 98% (in case of 500 ohm)  
  93% (in case of 470 ohm) |