

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.
Connect the control power supply device between control terminal +SU and CC.
- (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)



Mandatory

