

FR-D700-SC-EC Series

FR-E700-SC-EC Series

Safety Precaution

●Safety precaution for multiple connections of the safety stop function

When connecting multiple FR-D700-SC-EC series and FR-E700-SC-EC series to a safety relay module, follow the precautions below.

The safety stop function does not function correctly in case of an improper connection.

(1) Combination availability when using the safety stop function

When connecting to a safety stop relay module, an inverter (FR-D700-EC) with sink-logic safety stop terminals (S1, S2) must not be connected together with an inverter (FR-D700-SC-EC and FR-E700-SC-EC) with source-logic safety stop terminals.

The following table shows the combination availability.

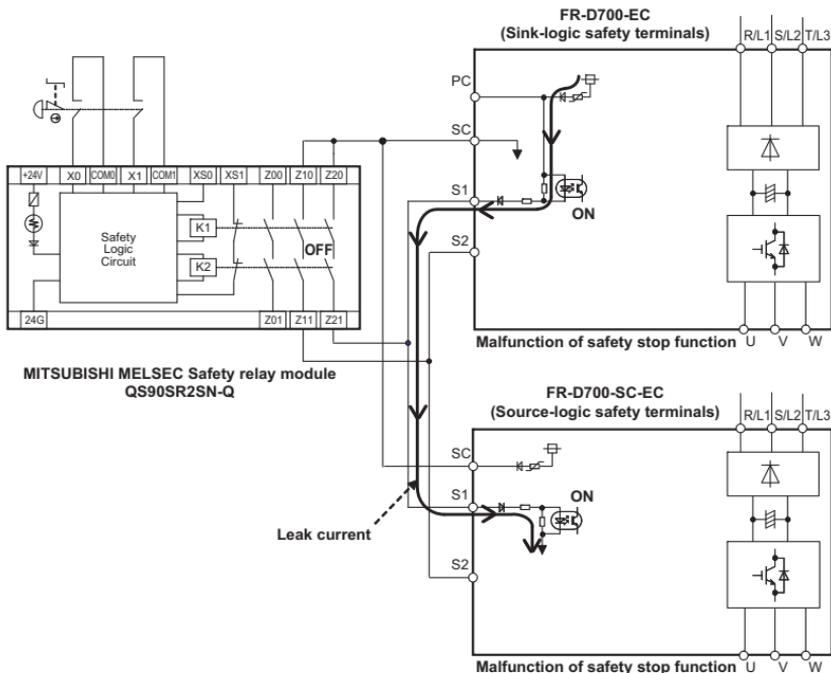
Model (Safety stop terminal logic)	FR-D700-EC (SINK)	FR-D700-SC-EC (SOURCE)	FR-E700-SC-EC (SOURCE)
FR-D700-EC (SINK)	○	×	×
FR-D700-SC-EC (SOURCE)	×	○	○
FR-E700-SC-EC (SOURCE)	×	○	○

○: Can be connected together.

×: Do not connect together.

(2) Circuit example of improper connection

The following circuit example causes a malfunction of the safety stop function. Leak current flows if an inverter with sink-logic safety stop terminals is wired together with an inverter with source-logic safety stop terminals.



NOTE

- Check the inverter model with the label on the product package and the rating plate before wiring. For the location of the rating plate, refer to *the Instruction Manual of the inverter*.
- Check the control logic of the safety circuit for other peripheral devices before connecting to a safety relay module.