

FAIL-SAFE CONTROLLER

4-Wire Type Control Circuit (open circuit detector)

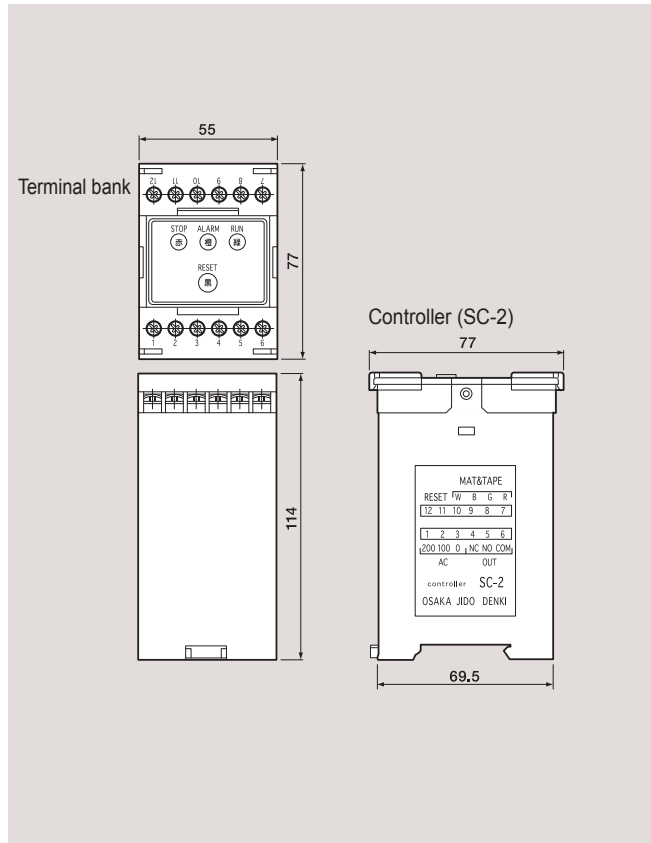
The fail-safe controller is an open circuit detection circuit that serves to create a safety zone as part of factory automation work. Used in combination with a 4-wire type mat switch, edge/tape switch, or the like, it ensures an output identical to that occurring in response to switch activation in the event of a problem on the power supply or a line disconnection/power outage in switching circuitry.

- SC-2 (for AC-specific application)



Specifications

Input voltage	AC100, 200V
Power consumption	5W
Output contract	1c AC250V-5A, DC30V-5A
Output contact life	50,000 activations (250 VAC, 5 A)
Mounting	DIN rail type, no mounting hole
Material	ABS resin
Weight	274 g (approx.)



Guide to a 4-wire Type Control Circuit

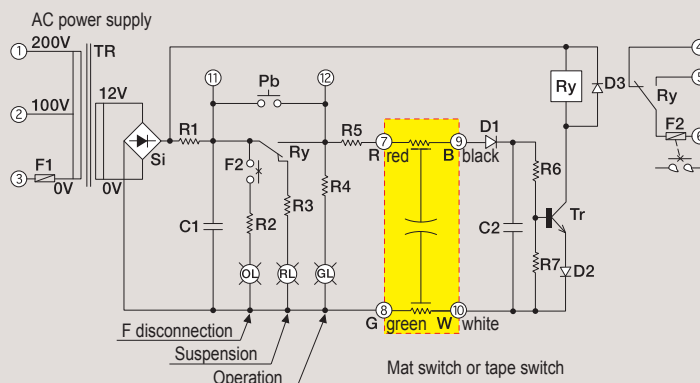
The circuit is used in combination with a 4-wire type mat switch, edge/tape switch, or the like for detection of line disconnections.

- ① Connect the 4-wire mat switch for example; then, connect a 100/200 V power supply.
- ② Keep a low-level current flowing at all times, thereby keeping the relay contact built in the SC-2 ON. (The light-emitting diode glows green.)
- ③ Under the weight of an individual, the voltage drops so that the relay contract goes OFF. (The light-emitting diode glows red instead of green.)
- ④ In the event of an open circuit or short circuit, the absence of voltage causes the relay contact to go OFF. (The light-emitting diode glows red instead of green.)
- ⑤ In the event of a power outage or blowout of a fuse, the relay contact goes OFF. (The light-emitting diode goes OFF.)



- ◆ The SC-2 circuit is designed based on self-maintaining circuitry, calling for resetting each time the mat/tape switch is activated.
- ◆ If a direct circuit configuration (without the need for resetting) is used, short-circuit reset terminals 11 and 12 with a lead wire. (See the diagram below.)

SC-2 Controller Circuit Diagram



※Avoid the outdoors and a site subject to water, oil, or excessive vibration for use.