

BRK-POW-I Electric Release Device Instruction Manual

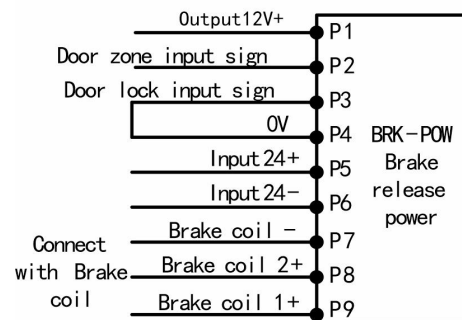
Note: This device requires a direct current (DC) power supply of 24V. It needs to be connected to the 24V power source of the elevator control system to detect whether the elevator control system is powered.

I. Terminal interface:

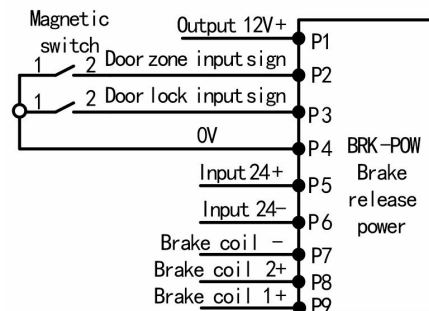
P1	Output 12V+
P2	Door Zone Signal Input
P3	Door Lock Signal Input
P4	Input Common Terminal (0V)
P5	Input Power Supply 24V+
P6	Input Power Supply 0V+
P7	Hold Brake Coil -
P8	Hold Brake Coil +

II. Wiring Diagram

1. Simple wiring diagram

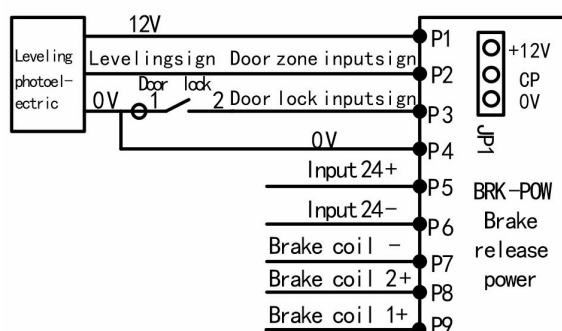


2. Level switch as passive switch wiring diagram 1



3. The level switch is an active photoelectric wiring diagram, JP1 shorting cap can switch the gate input high or low, CP and 12V shorting at this time the input low level is valid.

CP and 12V are shorted to make the input low level active, and CP and 0V are shorted to make the input high level active.



III. Indicator status

1. (Blue indicator light on the start button) 1 second on and 1 second off indicates that the door lock is not connected.
2. (Blue indicator light on the start button) is always on for leveling status
3. (Blue indicator light on the start button) flashes rapidly to indicate standby status
4. (Public button on the green indicator light) rapid flashing indicates that the release gate power output
5. (Blue indicator on the start button) and (green indicator on the public button) blinking at the same time indicates that the leveling signal input is normally open.
6. (Blue indicator on the start button) and (green indicator on the public button) flash alternately to indicate that the level signal input is normally closed.

IV. Usage and working principle

1, when the utility exists, the loose gate power supply will not have boost voltage output, internal circuit and external holding circuit isolation. No matter press any button on the panel will not have a boost output, so as to avoid the existence of utility power, and at the same time there is a boost output and utility rectified voltage superimposed on the holding coil, so that the holding coil or loose gate power supply there is a hidden danger of damage.

2, when the DC24V power supply does not exist, make sure that the peripheral wiring is correct, the door lock signal can only be a contact signal can not be with 110V or 220V voltage signal input. or 220V voltage signal input.

①: press (blue start button) do not release, wait for the blue button indicator begins to flash, you can release the start button, at this time the loose gate power supply began to work, in the absence of any button pressed the system will automatically shut down after 30 seconds, or long press (green press common button) 5 seconds.

(green button) for about 5 seconds, the system will stop working. Each time the output is activated, the unit will run for a maximum of 2 minutes and then automatically stop the output. This prevents the output from being stopped if the buttons are stuck together. If no button is pressed after the trigger, the circuit will be automatically shut down within 30 seconds, waiting for the next trigger to start.

②: If the elevator is in the non-door position, press (blue start button) and (green public button) at the same time, the release gate power supply will start the boosting circuit, at this time, the green indicator light will flash rapidly, the release gate power supply outputs DC110V or (DC220V) voltage, and the holding brake coil will get the power to open the holding brake, so that the elevator will move. After 2-3 seconds delay, the release power supply outputs a maintenance voltage of about DC80V (DC220V for DC110V), which can save the power consumption of the battery and make the working time longer.

③: If the elevator is in the level position, press (green common button)" and "(red forced button)" at the same time, the release power supply starts the booster circuit to work, and stops releasing the brake after leaving the level, you need to press the button to operate the elevator when it is in the non-door area position.

④: When the leveling signal is correctly accessed, when the elevator moves to the door zone position, the leveling signal is input to the loose gate power supply unit, when the leveling signal is captured, the (blue indicator) stops blinking and is always on, and the loose gate unit stops the output immediately and automatically, which facilitates the rescuer to open the car door at the door zone position to make the trapped person get out of the elevator. If the elevator door can not be opened at this leveling position or other reasons require the elevator to move to other nearest floors, press (green public button) and (red forced button) at the same time, the loose gate device can continue to start the boost output, so that the holding brake coil is energized, and after the elevator moves away from the leveling position, this time the loose gate power supply stops the output, and it needs to be switched to press and hold down the (blue starter button) and (green public button) at the same time in order to continue to release the gate. When the elevator continues to run to the door zone position, (blue indicator light) stays on. Leaving the door zone (blue indicator light) flashes. When the elevator is in the door zone position, (start button) is not active. When the elevator is in a non-door zone position, (force button) is not valid. When leaving the door zone position, the output will stop. It is necessary to

press the (start button) and (common button) to start the output again.

⑤: Correctly connected to the door lock signal, when the door lock is disconnected, the release gate power supply cannot start the boost output, the holding brake coil cannot get power, and the elevator cannot move. Only when the door lock is closed, the boosting output can be started. If the door lock is disconnected, the elevator car door opens, and someone enters or leaves the elevator, at this time, someone in the machine room starts the boosting output, and the elevator moves, which will have a great safety hazard. In the elevator accident, there has been a painful lesson in this regard. Access to the door lock detection signal is a necessary safety detection point of this product. Note: When debugging this device, the elevator should be disconnected from the main power supply, P3 P4 door lock signal can not be accessed with electrical signals, otherwise the device will be burned when starting.

V. Door area signal normally open and normally closed input judgment and selection.

①: Door area normally open/normally closed view: after starting the release device blue blinking, then at this time at the same time press and hold (start button) and (Forcing button) can check whether the level signal is normally open or normally closed input, if (blue indicator) and (green indicator) flash at the same time means normally open, if (blue indicator) and (green indicator) flash alternately means normally closed.

②: Normally open/normally closed switching function of door zone signal: When (blue indicator) flashes after starting the release device, press and hold (start button) at the same time (green indicator). ②: Door zone signal normally open/normally closed switching function: When (blue indicator) blinks after activating the release device, press and hold (start button) (common button) (force button) for 5 seconds and (blue indicator) and (green indicator) appear to blink alternately to indicate that the level input is normally closed, and (blue indicator) and (green indicator) blink at the same time to indicate that the level input is normally open, and release the button to enter the shutdown state of the release device.

!!! Note:

①: When the product is not used for a long time, it should be charged and discharged at least once in six months, and the continuous charging time is more than 12 hours before it is boxed for storage.

②: When using for the first time, please charge for more than 24 hours.

③: When using the release device, please disconnect the main power of the control cabinet.

Fast H



On

Blue

Com

Green

Forc

1. Only activate the loose gate when the mains power supply is interrupted.
2. Press the start button for 5 seconds to activate the system
3. In the non-door position, press the start and common buttons at the same time to activate the outputs.
4. in the door position, press the common and forcing buttons at the same time to activate the outputs