

# PRODUCT INFORMATION

## DOOR OPEN PARK BRAKE INTERLOCK 12/24 VOLT

### Part No. 12848

### Operation and Use

When the doors are closed and the park brake is applied, the park brake interlock is in its armed state.

When the park brake is applied and a door is opened, this has no effect on the door open park brake interlock until the park brake is released.

When the park brake is released, the ground speed signal is below the pre-set limit (set to 50 Hz by default) and a door is opened, a pre-application alarm will begin to pulse. After the pre-set alarm period (set to five seconds by default), the pre-application alarm will stop pulsing and turn on solid, and the park brake will be automatically applied. After a further short delay (set to two seconds by default), another output will become active. This may be used to activate an external alarm or the OEM horn; or it may be used to bleed off steering accumulator pressure.




When the park brake is released, the ground speed signal is above the pre-set limit and a door is opened, a pre-application alarm will begin to pulse. The alarm will continue to pulse until either:

1. The door is closed, OR
2. The ground speed signal drops below the preset limit, in which case the alarm will begin to pulse faster and follow the cycle detailed in the previous paragraph.

To reset the device once a fault has occurred, it will be necessary to apply the park brake, close the door and then cycle the ignition. The door open park brake interlock has an option to incorporate a reset switch, so that the machine does not need to be turned off and on again when the park brake interlock has been activated.

### Controller Status Indicator Operation

State	Indicator Sequence
Battery Power-up	<ul style="list-style-type: none"> <li>■ All indicators will turn on.</li> <li>■ All indicators will turn off.</li> <li>■ After power-up, the controller will revert to normal operation.</li> </ul>
Status Indicator in Operation	<p><b>RED</b> – Fault.</p> <ul style="list-style-type: none"> <li>■ If outputs have problems, this will turn on.</li> <li>■ Outputs 1 &amp; 2 – high current outputs: checked for over current.</li> <li>■ Output 3 – not checked as it is a low side driver.</li> <li>■ Output 4 – checked for correct output voltage.</li> <li>■ Temperature – checked for board temperature exceeding 80 °C.</li> </ul> <p><b>YELLOW</b> – Pulses during normal operation, indicates system OK.</p> <ul style="list-style-type: none"> <li>■ Flashes on and off at one-second intervals (on for one second, off for one second).</li> </ul> <p><b>GREEN</b> – On for normal operation.</p>

	! Alarm Indication
	✓ System Status
	⚡ Power Indication

### Installation Guide

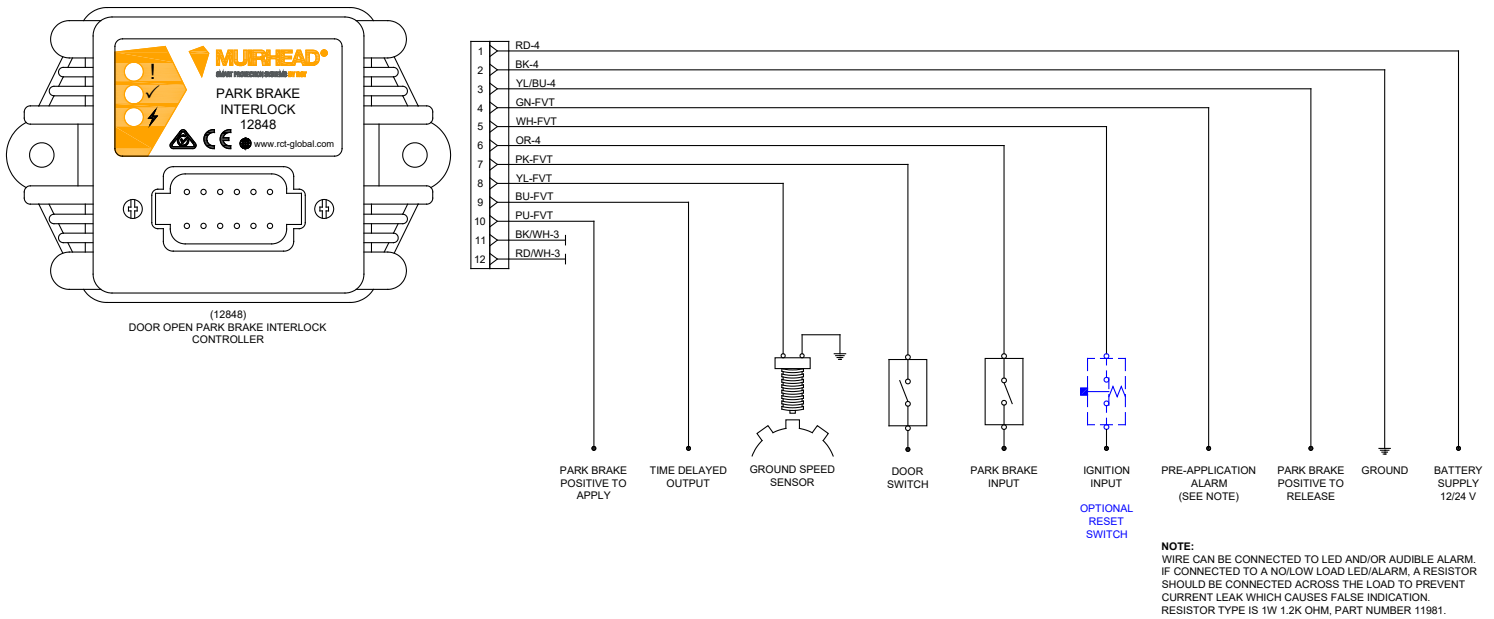
RCT recommends a risk assessment be carried out prior integrating with a machines OEM Park Brake system or any other system that may assert control over a critical safety system.

1. Mount the control unit in suitable location.
2. Refer to the following wiring connections table and external wiring diagram to connect the control unit. It is recommended that the wiring be installed alongside the OEM wiring ensuring that it is secured at regular intervals; this will provide protection from heat and abrasion, and any other excess damage that may occur with extended vehicle operation. When securing the wiring to the OEM wiring, ensure that the loom is away from moving vehicle parts, which could lead to loom damage.
3. Mount the LED alarm on the instrument panel in the cabin in clear view of the operator.

## Wiring Connections

No.	Colour	Function	Description
1	Red	Battery +ve	Connect to +ve from the ignition switch
2	Black	Ground	Earth (ground)
3	Yellow/Blue	Output 1	Park brake +ve to release
4	Green	Output 3	Pre-brake application alarm - GND 700 mA
5	White	Input 1	Ignition supply 12/24 V
6	Orange	Input 3	Park brake sense, positive to apply
7	Pink	Input 4	Door open sense – ground sensing (configurable); the controller will consider the door closed when the signal is sensed
8	Yellow	Input 2	Ground speed frequency input
9	Blue	Output 4	Time delayed output. This output will come on after the pre-selected time period has elapsed once the controller has forced the park brake to be applied. This time period is set to two seconds by default and is configurable.
10	Purple	Output 2	Park brake +ve to apply
11	Black/White		Not used
12	Red/White		Not used

## External Wiring Diagram (552e)



For detailed product information, please contact your local RCT branch for a copy of the product manual [M0964](#). For configuration settings and adjustment, please contact your local RCT branch to purchase the Muirhead® Programming Utility, part number 13647.

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