Installation Instructions for the Relialign™ CDI Series Commercial Door Interlock

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Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

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International +1-815-235-6845; +1-815-235-6545 Fax

GENERAL INFORMATION
Honeywell Relialign™ CDI Series Residential Door Interlock switches are electromechanical devices designed for use in swing door applications, specifically dumbwaiters, material lifts, lifts for the mobility impaired and private residence swing-door elevators in the USA. In Canada, the CDI is designed for use in swing door applications, specifically dumbwaiters, material lifts, and residential elevators, but is not designed for use in lifts for the mobility impaired. The interlock holds the door in place and prevents it from being opened in potentially unsafe conditions (e.g. the elevator/lift car is not present at the door).

Featuring a custom internal solenoid control mechanism that uses Honeywell MICRO SWITCH™ switches, the Relialign™ Series of door interlocks may reduce complexity of the host controller, reduce power consumption, extend solenoid life, and reduce solenoid timeouts. CDI Series interlocks are configurable and available in left- and right-hand versions, allowing for simplified installation, customization, and retrofitting into current designs.

Honeywell CDI Commercial Door Interlocks comply with ASME A17.1 & A18.1:2010, (the safety code standards for elevator and escalators), CAN/CSA B44, and UL104 standards. A robust key and cam mechanism extends the life to 1 million mechanical operations. The snap-action cam mechanism reduces adjustment set-up time and the key engagement was designed to minimize maintenance costs due to false alarms. The CDI Series has a robust zinc die cast housing and cover with white powder coat finish.

ADJUSTMENT
The mounting template aligns the key to the center of the opening in the interlock housing allowing for door sag over time without any adjustment.

WIRING INSTRUCTIONS
1. Remove the cover by unscrewing the cover screws.
2. CATS option only – Plug the mating CATS connector into the female receptacle on the CDI interlock.
3. Terminal Block option – Unscrew the terminal screws. Connect wires per the schematics provided on the inside of the interlock’s cover. Torque all terminal screws with a tightening torque of 0.5 Nm to 0.7 Nm.
4. Assemble back the cover. Securely tighten the four screws. Recommended tightening torque for the cover screws is 1.99 Nm max.
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PERFORMANCE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Measure</th>
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<tbody>
<tr>
<td>Endurance life</td>
<td>1 million operations minimum</td>
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<tr>
<td>Operating temperature</td>
<td>4 °C to 38 °C [40 °F to 100 °F]</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40 °C to 60 °C [-40 °F to 140 °F]</td>
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<tr>
<td>Standards/approvals</td>
<td>cULus listed per UL 104</td>
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<tr>
<td></td>
<td>Complies with ANSI/ASME A17.1, A18.1</td>
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<tr>
<td></td>
<td>Complies with CAN/CSA B44</td>
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<tr>
<td>Electrical rating</td>
<td>0.20 A max., 24 Vdc</td>
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<tr>
<td></td>
<td>0.35 A max., 24 Vac, 60 Hz</td>
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RELIALIGN™ CDI SERIES NOMENCLATURE

- **CDI Series**
  - **Switch Type**
  - **B** Solenoid Type
  - **S** Wiring
  - **1** Connector
  - **W** Color
  - **Specials**

- **CDI**
  - **L** Left
  - **R** Right

- **Product Name**
  - **Relialign™ Commercial Door Interlock**

- **Wiring Types**
  - **Parallel**
  - **Series**

- **Connector**
  - **Terminal strip**

- **Specials**
  - Two characters, letters or numbers to signify customer name or other unique features of the product not covered in the nomenclature. This field is not required.

- **Color**
  - **White**

- **Specials**

**RELIALIGN™ CDI SERIES NOMENCLATURE**

**CDI Series**

- **Relialign™ Commercial Door Interlock**

**WIRING SCHEMATIC**

**Figure 2. CLEARANCE**

**Figure 3. WIRING SCHEMATIC PARALLEL CONNECTION (CAT 5 CONNECTOR)**

**Figure 4. WIRING SCHEMATIC PARALLEL CONNECTION (6-PIN TERMINAL)**

**Figure 5. CAT 5 CONNECTOR PIN DETAILS**

**Figure 6. WIRING SCHEMATIC SERIES CONNECTION (CAT 5 CONNECTOR)**

**Figure 7. WIRING SCHEMATIC SERIES CONNECTION (4-PIN TERMINAL)**

**CLEARANCE BETWEEN HOIST WAY DOORS, LANDING SILLS, AND CAR DOOR**

The clearance between the hoistway doors or gates and the hoistway edge of the landing sill shall not exceed 75 mm [3 in]. The distance between the hoistway face of the landing door or gate and the car door or gate shall not exceed 125 mm [5 in]. (See Figure 2).

**IMPORTANT NOTICE**

Strict compliance with installation instructions / mounting template is essential for safety. It is the customer’s responsibility to ensure they are followed. It is imperative any wear on the actuator key or on the switch itself are identified at an early stage and the necessary corrective actions implemented (replacement), thus ensuring safety.

**GENERAL DIRECTIONS**

A. The actuator key for the switch **MUST** move freely without jamming during operation

B. The alignment of the key to the switch **MUST** be checked as per the mounting template

C. Visually ensure that no mechanical damage has occurred to the switch body or key. If damage is found the complete switch assembly **MUST** be replaced

D. Test the switch for correct electrical operation while installed and operated normally.
Honeywell Relia³ign™
ELEVATOR INTERLOCK MOUNTING TEMPLATE

VERIFY OUTLINE AREA ALIGNS WITH POSITION OF INTERLOCK BEFORE DRILLING HOLES.

STEP 1
CENTER PUNCH HOLE LOCATION FOR INITIAL MOUNTING (2 PLACES)

STEP 2
CENTER PUNCH HOLE LOCATION (2 PLACES)

STEP 3
ADD CORNER SCREWS AFTER ADJUSTMENTS. (4 PLACES)

STEP 4
LOCATION FOR EMERGENCY OVERRIDE OPENING. USE Ø 0.625 DRILL

ALL DIMENSIONS ARE IN INCHES SCALE 1:1

VERIFIED OUTLINE AREA ALIGNS WITH POSITION OF INTERLOCK BEFORE DRILLING HOLES.