

## Application Note

# Honeywell Relialign™ CDI Series Commercial Door Interlock Switches

*Protecting and securing person and material elevation equipment*

### Background

Commercial lifts provide a range of challenges regarding security and safety. One safety concern is ensuring that the swing door can only be opened when the lift is present. Honeywell's Commercial Door Interlock Switches can be easily be integrated into existing or new commercial lift systems to successfully negate or minimize these potential concerns.

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.



### Solutions

#### Wheelchair Lift

Honeywell Relialign™ CDI Series Commercial Door Interlocks allow wheelchair lifts to operate seamlessly and with a high degree of safety. The CDI Series is designed to minimize potential tampering and false trips. Its compact and sturdy package ensures that it will be inconspicuous.

#### Commercial Material Lift

Honeywell Relialign™ CDI Series Commercial Door Interlock Switches are adept at providing secure and safe operations for many commercial material lifts. Material lifts, also known as dumbwaiters, are used to transfer material between floors when climbing stairs or larger elevators are impractical. The Relialign™ CDI Series Commercial Door Interlock Switches utilize its locking solenoid to ensure the lift door is not opened when the situation is potentially unsafe.



Wheelchair Lift



Commercial Material Lift

### Sensing and Control

# Application Note

## Honeywell Relialign™ CDI Series Commercial Door Interlock Switches

### Value to Customers

(★ - competitive differentiator)

- ★ Quick and easy installation: CDI Series' non-intrusive design does not require destruction of door or frame, allowing for lower installation costs; packaged solution saves time and reduces cost by eliminating engineering, procurement, and installation associated with custom OEM-made products
- ★ Safety: Dual mechanism action increases safety and tamper resistance; no open or exposed contacts reduce the risk of shock and manual overrides; Relialign™ Series meets ASME A17.1 & A18.1, cULus, and CAN/CSA B44 codes
- ★ Reliability: Key engagement designed to reduce maintenance costs by minimizing nuisance stoppages
- ★ Flexibility: Wiring capabilities designed for use across multiple styles of control systems; available in series or parallel
- Less complexity: Unique RJ-45 Category 5 connections, as well as a terminal strip
- Customizable: Configurable product platform may be customized for a variety of engineering designs and requirements

### Features and Benefits

- Designed for commercial dumbwaiter, platform and material lift applications with swing doors
- Compliance with ASME A17.1, ASME A18.1, cULus, and CAN/CSA B44
- Reliable performance and multiple design features minimize nuisance stoppage of applications
- Manual override for easy actuation without user hazard reduces the potential for call-backs
- Door closure retention cam holds door with minimal key-to-interlock play; a new design material provides more pull force than competitive offerings
- Series or parallel wiring option for door closed and door locked switches
- Terminal block or one-piece Cat 5 connection for quick and easy connection
- Universal voltage for ac and dc applications
- Enhanced safety, and low power consumption

### Find Out More

To learn more about Honeywell safety solutions, contact a Honeywell representative today at **1-800-537-6945**, e-mail [info.sc@honeywell.com](mailto:info.sc@honeywell.com), or visit [sensing.honeywell.com](http://sensing.honeywell.com)

### Sensing and Control

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While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

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