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Handicap Doors

Handicap Door Operation

Handicap Doors are typically equipped with Door Opener hardware. It is possible to control different aspects of an automatic door to make it easier to use for some and secure for everyone. This application shows how to turn off the Outside Door Opener button while leaving the inside one operational. A valid card read on the outside could enable the outside opener button allowing the card holder to press the button and have the door hardware open the door. Specific people could be given a linking level that unlocks the door and automatically activates the door opener while others open the door manually. This application also makes sure the door is unlocked before the opener tries to drive the door open.

Programming

Components - Inputs, Outputs, Time Zones

Reader (Device) = Time Zone controls when cards can be read. Typically 24 hr.

Output 1 = Door Lock - Door Lock Time Zone, Link Open - Linking Group 3 - Activates Link on Open

Output 2 = Door Opener - No Time Zone, Link Secure

Output 3 = Virtual Output Timer - 24 hour time zone - Link Open - Linking Group 1 - Activates Link on Secure

Input 5 = Inside Push Button - No Time Zone, Link on Status Change (normal to abnormal) - Linking Group 2

Input 6 = Outside Push Button - No Time Zone, Link on Status Change - Linking Group 4

Time Zone = Outside Button - 0-0 schedule - On when linked to.

Linking Groups

Linking Group 1 = Output 2 - 24 hr time zone - Pulse 2 Seconds (if two seconds is long enough to start the door opener - pulse time can be varied)

Linking Group 2 = Output 1 - 24 hr time zone - Pulse 5 seconds + Output 3 - 24 hr time zone - pulse 1 second.

Linking Group 3 = Time Zone Outside Button - 24 hr time zone - Follow

Linking Group 4 = Output 1 - Outside Button Time Zone - Pulse 5 seconds + Output 3 - Outside Button time zone - pulse 1 second.

Linking Level 1 = This Door's Reader & Linking Group 2 - Assigned to Specific People to automatically activate door opener.

Theory of Operation

Output 1 is connected to the Lock and Output 2 is connected to the Door Opener. Outside and Inside Buttons are connected to inputs 5 and 6. Outside Button works while door is unlocked. Inside Button Works all the time. Card Read will unlock door and enable outside button. Card Holders with the Linking Level will unlock and activate the door opener. Everyone else's card (those without the linking level) unlocks the door at which time they can press the outside or inside button or push the door open themselves.