

DLD-2 Directional Logic Device A New Plug and Play "Micro" Device



Overview

This directional logic device supplies the direction that a vehicle is going by using two detectors connected to two loops. Using this approach, one simply connects the relay outputs from the two vehicle detectors to this device's inputs and this unit takes it from there. It carefully measures the inputs and determines the direction the vehicle is moving: (1) from A to B or (2) from B to A, and indicates the direction by energizing the appropriate relay.

Power

10 to 30 volts AC or DC, 3 mA typical

Power Indicator

The green LED is the power indicator.

Directional Indicator

This LED is a bi-color LED. When the A loop is entered first, the LED will blink with a green indication until the B loop is entered. It then turns a solid green. If the B loop is entered first, then the LED will blink with a red indication until the A loop is entered. It then turns a solid red. When the loops are both cleared, this LED will be dark.

Inputs

There is one input for each direction. A normally open relay contact from the A detector is connected to Pin 3 and to Pin 2. A normally open relay contact from the B detector is connected to Pin 4 and to Pin 2.

Outputs

There is one output for each direction: A to B on pin 5 and B to A on pin 6. When the directional indicator goes solid on, the appropriate relay will output a 300 ms pulse. No further outputs will be given until both loops are completely cleared.

Size

Height: 1.52" Width: 2.9" Depth: 1.56"

Connector

Removable 7-position terminal block

Pin assignments

- 1 - Power in (10 to 30 volts AC or +DC)
- 2 - Power common and inputs A & B common
- 3 - Detector A Input
- 4 - Detector B Input
- 5 - Relay for A to B (N.O. closes for directional indication)
- 6 - Relay for B to A (N.O. closes for directional indication)
- 7 - Output relay common

Features

- Adds yet another new dimension of simplicity to the industry
- Replaces a boxful of relays to generate the required logic
- No switches to set, no buttons to push, no questions to ask. Just connect it up and watch it work
- Specifically designed to handle parking, drive-through, and access control applications



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Specifications are subject to change to reflect improvements and upgrades.

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