

GE Transportation

The Vital Logic Gate VLG from GE - Transportation utilizes an advanced concept in vital systems logic circuitry for safe, reliable gate activation at a grade crossing, with design techniques proven by the Crossing Control Unit and a B1 relay base compatible package, also from GE - Transportation.

The standard VLG is equipped with two vital inputs and a single vital relay drive output. System options allow for input capacity to be increased to four vital inputs and the addition

of a second, time-delayed vital output. With configuration options, the VLG can be adapted to various applications requiring multiple inputs with one or two outputs.

With its unique packaging concept and a series of LED indicators to mimic relay operating sequences, the VLG provides a low-cost system that's easy to install and troubleshoot without sacrificing performance. The solid-state design does not require mandatory testing.

Vital Logic Gate VLG

Safe, Reliable, Solid-state Gate Activation



Options

The VLG is available with up to nine standard configurations:

- Two inputs with a single output
- Four inputs with a single output
- Six inputs with a single output
- Two inputs with a second output (3- to 12-second time delay)
- Four inputs with a second output (3- to 12-second time delay)
- Six inputs with a second output (3- to 12-second time delay)
- Two inputs with a second output (15- to 30-second time delay)
- Four inputs with a second output (15- to 30-second time delay)
- Six inputs with a second output (15- to 30-second time delay)

The VLG is also available with a B1 relay base and associated hardware.

Accessories

The VLG has the following companion products:

- A 20-amp output, two input flasher control circuit, the Crossing Lamp Controller (XLC). The XLC provides the flasher and bell outputs necessary for virtually any standard crossing application.
- A low-output impedance gate interface module, the Vital Relay Driver (VRD). The VRD is designed to interface a gate control output to the low-input impedance of most gate mechanisms' motor control relays.

Specifications

Dimensions

- Width: 2.5 in (63.5 mm)
- Height: 8.0 in (203.2 mm)
- Depth: 8.0 in (203.2 mm)

Weight

3.5 pounds (1.59 kg)

Operating Temperature

- Minimum: -40°F (-40°C)
- Maximum: +157°F (+69°C)

Relative Humidity

95%, non-condensing

Voltage

8 to 16 VDC

Current Draw

250 ma maximum

Control Inputs

500 ohms minimum

Relay Drive Output

500 ohms minimum

Standard Delay Time

3, 6, 9 or 12 seconds

Extended Delay Time

15, 20, 25 or 30 seconds

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