



Global Traffic  
Technologies

# Opticom™ Infrared System

## Opticom™ Model 770 Card Rack for Gate Opener Applications

An Opticom™ Infrared System Matched Component Product

October 2007

### Description

The Opticom™ Model 770 Card Rack is designed for gate opener applications where a relay is needed. Two additional components are required to complete a gate opener application: an Opticom™ Phase Selector (either model 452 or model 752) and an Opticom™ Optical Detector (model 721). The Opticom model 770 consists of a metal enclosure with a dedicated card slot for one Opticom phase selector or Opticom™ Discriminator. The front panel of the Opticom model 770 includes a terminal strip for connecting the Opticom optical detectors and outputs to a gate operator, as well as a 9-pin circular connector and harness to connect to 120 VAC.

### Features

- Conveniently located connections and harnessing (in the front)
- Rugged construction
- Stable “on-shelf” mounting
- Easy-to-read terminal designations
- Easy installation
- Includes 100 feet of Opticom™ Model 138 Detector Cable



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## TB1 Terminal Block Connections

The terminal block on the front of the Opticom™ Model 770 Card Rack, TB1, is intended for primary optical detector connections for channels A, B, C and D. It is located on the left side of the Opticom model 770.

Pin	Function
1	Channel A detector signal input
2	Channel B detector signal input
3	Detector power (DC+)
4	Earth ground (DC-)
5	Earth ground
6	Normally open contact (relay)
7	Common contact (relay)
8	Normally closed contact (relay)

## J1 Connector

The J1 connector is intended to connect the gate opener system to AC power. It is located next to TB1.

Pin	Function
1	115 VAC (AC+)
2	AC return (AC-)
3	Chassis ground
4	Not used
5	Not used
6	Not used
7	Not used
8	Not used
9	Not used

## Physical Dimensions

### Opticom™ Model 770 Card Rack

**Length:** 8.5 in. (21.6 cm)

**Width:** 5.25 in. (13.3 cm)

**Height:** 5.25 in. (13.3 cm)

**Weight:** 1.37 lbs. (620 g)

## Relay Specification

- Designed to actuate gate opener circuit
- Designed to switch AC or DC
- Includes normally open and closed contacts
- Contact ratings:

### Resistive

— 10A 240 VAC

— 10A 30 VDC

### General Use

— 7.5A 120 VAC

— 7.5A 240 VAC

— 7A 30 VDC

— 1/6 hp 120 VAC

— 1/3 hp 240 VAC

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