

OPTICOM™ INFRARED SYSTEM

OPTICOM™ MODEL 462 AND 464 PHASE SELECTORS

*OPTICOM™ SYSTEM COMPONENTS FOR ENVIRONMENTS
WITH INFRARED TECHNOLOGY*



Description

The Opticom™ Model 462 Phase Selector is a plug-in, two-channel, dual-priority, encoded signal device designed for use with Opticom™ Infrared (IR) System Emitters and Detectors. The Opticom™ Model 464 Phase Selector is a plug-in, four-channel, dual-priority, encoded signal device designed for use with Opticom™ Infrared System Emitters and Detectors. Both can be installed directly into the input file of Type 170 traffic controllers equipped with priority phase selection software and in virtually any other traffic controller equipped with priority phase selection inputs and related software. Opticom™ phase selectors are powered from 120VAC and 24 VDC and contain their own internal power supply to support Opticom™ Infrared System Detectors.

The Opticom™ Model 760 Card Rack is required when input file space is not available.

Opticom™ Model 462 and 464 Phase Selectors recognize and discriminate among three distinct Opticom™ IR emitter frequency rates via Opticom™ detectors: high priority, low priority and probe priority. Within each of these three frequency rates, the phase selectors further discriminate among 10 classes of vehicle identification codes, with 1,000 individual vehicle codes per class — 10,000 total per frequency rate.

Certain intersection parameters may be modified via the use of front panel settings.

The Opticom™ detector inputs and power outputs are on the card edge connector.

Each channel delivers a constant output for high-priority activation and a pulsed output for low-priority activation. A high-priority signal received on any channel will override any low-priority activation. The probe frequency does not generate an output.

Available Models

Opticom™ Model 462 Phase Selector

Opticom™ Model 464 Phase Selector

Global Traffic Technologies, LLC

(GTT), formed in 2007 from

3M's pioneering Intelligent

Transportation Systems business,

is the manufacturer of Opticom™

priority control systems and

Canoga™ traffic sensing systems.



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OPTICOM™ MODEL 462 AND 464 PHASE SELECTORS

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Features

- Four channels of detection with the Opticom™ Model 464 Phase Selector
- Two channels of detection with the Opticom™ Model 462 Phase Selector
- Compatibility with encoded signal and non-encoded signal Opticom™ Infrared System Emitters
- High, low and probe priority vehicle discrimination
- “First-come, first-served” priority within each priority level
- Direct installation into CA/NY Type 170 input files
- Automatic range setting using an encoded emitter
- User-adjustable range setting from 200 to 2,500 feet (60 to 760 m) of operation
- Easy installation
- Compatibility with most traffic controllers
- Front Panel settings for intersection parameters
 - Maximum call time can be set to 2, 3, 6 or 12 minutes
 - Call hold time can be set to 6 or 12 seconds
- Front panel switches and diagnostic indicators for testing
- Configurable without a computer
- USB 2.0 Communication port
- Regulated detector power supply
- Optically isolated outputs
- Multi-function test button
 - High and low test calls
 - Reset to default parameters
 - Erase Logs
 - Range setting
 - Detector Test
 - Diagnostic test
- Advanced built-in diagnostics and testing
- Opticom™ Model 755 Four-Channel Adapter Card (optional)
- Opticom™ Model 462/464 Phase Selector internally records each system activation. Each entry contains:
 - Intersection name
 - Date and time of the activity
 - Vehicle class code of the activating vehicle
 - Activating vehicle's ID number
- Channel called
- Priority of the activity
- Duration of the activation
- If preempt has been requested and reason if not
- Intensity value
- LED indicators
 - Status
 - High signal/call per channel
 - Low signal/call per channel
- Two-digit status display
 - Two character display and keypad to enable diagnostics and test calls to each channel

Operating Parameters and Certifications

- Four dual-priority channels with the Opticom™ Model 464 Phase Selector
- Two dual-priority channels with the Opticom™ Model 462 Phase Selector
- Priority within each level: first-come, first-served
- Priority override: High priority over Low priority
- Opticom™ Infrared System Detector input(s): one per channel on the card edge connector
- Voltage: 89 to 135 VAC, 60 Hz at up to 500mA or 24 VDC at up to 1 Amp
- Temperature: -37° C to +74° C (-34.6° F to +165.2° F)
- Humidity: 5% to 95% relative
- CE Certified
- NEMA TS-2 compliance
- FCC compliance

Physical Dimensions

Length: 7.0 in. (17.8 cm)
8.2 in. (20.8 cm) including handle
Width: Model 462: 1.1 in. (2.8 cm)
Model 464: 2.3 in. (5.8 cm)
Height: 4.5 in. (11.4 cm)
Weight: Model 462: 0.53 lbs. (240 g)
Model 464: 0.57 lbs. (260 g)

For complete warranty information visit www.gtt.com.



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