OPTICOM™ 762 Phase Selector

DESCRIPTION

The Opticom 762 Phase Selector is a plug-in, two-channel, dual-priority, encoded signal device designed for use with Opticom infrared system emitters and detectors. The Opticom 762 can be installed directly into the input files 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. Phase selectors are powered from AC mains or 24 VDC and contain their own internal power supply to support Opticom infrared system detectors.

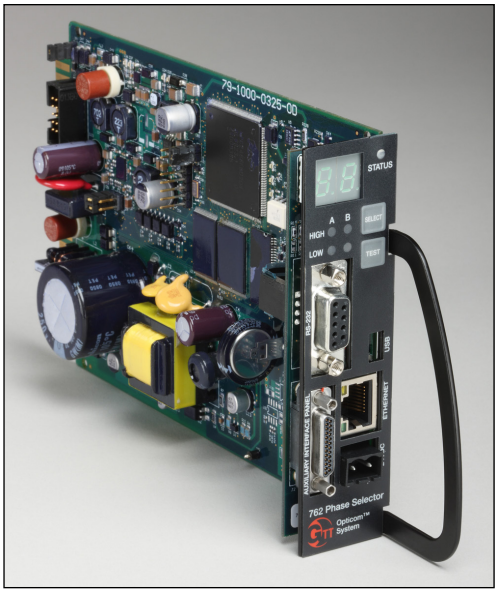
The Opticom 760 Card Rack is required when input file space is not available.

The Opticom 762 recognizes and discriminates among three distinct Opticom emitter frequency rates via Opticom detectors: high priority, low priority and probe frequency. 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.

The Opticom 762 internally records each activation of the system.

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
- Relative priority level
- If preempt has been requested and reason if not
- Green signal indications displayed at the end of the call
- Time spent in the final displayed greens
- Duration of the activation
- Capability to playback up to the last 250 seconds of the 100 most recent call



Global Traffic Technologies, LLC
7800 Third Street North
St. Paul, Minnesota 55128-5441
1-800-258-4610
651-789-7333
www.gtt.com

Global Traffic Technologies Canada, Inc.
157 Adelaide Street West, Suite 448
Toronto, ON M5H 4E7 Canada
1-800-258-4610

Global Traffic Technologies, LLC
1210 Parkview
Reading RG7 4TY
United Kingdom
+44 (0) 7799 908916

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GLOBAL TRAFFIC TECHNOLOGIES

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FEATURES

Two channels of detection with the Opticom 762 Phase Selector

- Two auxiliary detectors per channel
- Records green signal displayed at end of preemption
- Compatible with encoded signal and non-encoded signal Opticom Emitters
- High and low priority as well as probe frequency discrimination
- "First-come, first-served" priority within each priority level
- Extend call for closely following vehicles
- Priority-by-class setting via the interface software
- Priority-by-direction setting via the interface software
- Low-priority output may be configured for first-come, first-served or all-channel active
- Direct installation into CA/NY Type 170 input files
- Automatic range setting using an encoded emitter
- User-adjustable range setting up to 2,500 feet of operation
- Easy installation
- Compatible with most traffic controllers
- Computer-based interface
- Four RS232 communication ports: front port, rear backplane and two on the auxiliary interface panel
- User-selected communications baud rate of 1,200 to 230,400 bits per second
- 10/100Mb Ethernet communication port
- USB 2.0 communication port
- Customizable range setting
- Customizable ID code validation
- Flexible programming options for priority control parameters
- Detailed current Opticom Infrared System parameter information
- History log of most recent Opticom infrared system activities (10,000 entries)
- Call playback-logs 100 of the most recent calls-250 seconds long
- 30,000 frequency/class/vehicle code ID combinations
- Front panel display and status indicators
- Indicators for diagnostic testing
- Crystal controlled circuitry
- Accurate infrared signal recognition circuitry
- Precise output pulse
- Definitive call verification
- Regulated detector power supply
  - Operates on 24 VDC or 120 VAC
- Optically isolated outputs
- Multifunction test switch
  - High- and low-priority test calls
  - Reset to default parameters
  - Range setting
  - Diagnostic test
- Advanced built-in diagnostics and testing
- Tested to CE and to NEMA environmental and electrical test specifications

ACCESSORIES

- Opticom 768 Auxiliary interface panel
- Opticom On-Site Interface software package for configuration, call history and diagnostics

OPERATING PARAMETERS

Two dual-priority and probe frequency channels

- "First-come, first-served" for vehicles with the same priority level (high or low)
- Priority override: always higher over lower
- Opticom Infrared System Detector input(s): one per channel on the card edge connector and two auxiliary per channel through the auxiliary function harness
- Optional interface software for flexible programming options and call history
- Display LED indicators
- - Status
- - High signal/call per channel
- - Low signal/call per channel
- Two character display and keypad to enable diagnostics and test calls to each channel
- Voltage: 89 to 135 VAC, 60 Hz, or 24 VDC
- 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) x 8.2 in. (20.8 cm) including handle

Width: 1.1 in. (2.8 cm)

Height: 4.5 in. (11.4 cm)

Weight: 0.53 lbs. (240 g)