



Global Traffic
Technologies

Opticom™ Infrared System

Opticom™ 700E Series Phase Selectors Accessories

Opticom™ Infrared System Matched Component Products

October 2007

Opticom™ Model 739 Detector Cable

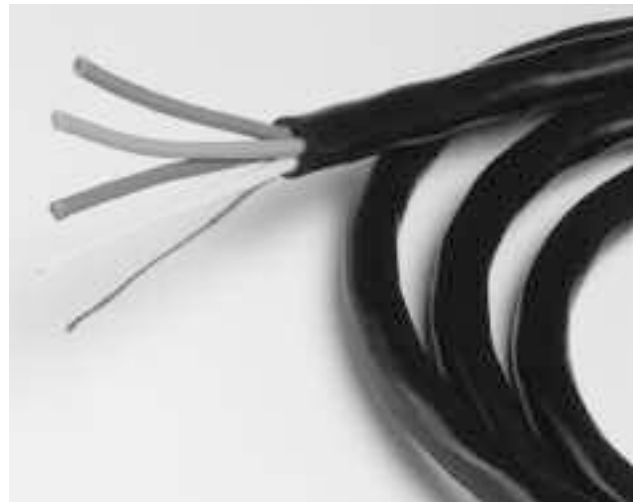
Description

Opticom™ Model 739 Detector Cable is designed and manufactured explicitly for use with Opticom™ Detectors. It is required to connect Opticom™ Model 752E or 754E Phase Selectors to Opticom detectors. Opticom model 739 has four color-coded conductors, a conductive shield and drain, and a black PVC jacket.

This durable, high-quality cable carries the appropriate power to the Opticom detector from the Opticom phase selector and delivers the necessary quality signal to the Opticom phase selector or discriminator circuitry up to 305 meters (1,000 feet).

Features

- Optimized to interface Opticom detectors with Opticom phase selectors
- Ensures effective range of 760 meters with Opticom™ Infrared System components
- Durable construction
 - Suitable for direct burial
 - Suitable for conduit and mast arm pull
 - Suitable for exposed overhead installation*



Opticom™ Model 739 Detector Cable

Operating Parameters

- 600 volt rating
- 75° C (167° F) temperature range
- Four-conductor AWG #20 (7x28) stranded, individually tinned copper
 - Yellow
 - Blue
 - Orange
 - Green
- Aluminized polyester shield with 20% overlap
- Drain AWG #20 (7x28) stranded, individually tinned copper
- Controlled electrical characteristics

Physical Dimensions

- **Outside diameter:** 7.36 mm (.29 in.)
Available in 305-meter (1,000-foot) spool

*Separate messenger wire required.

Opticom™ Infrared System Matched Component Products

Opticom™ Model 760E Card Rack

Description

The Opticom™ Model 760E Card Rack facilitates easy Opticom™ Phase Selector and Opticom™ Discriminator installation. The Opticom model 760E is a material component to the Opticom™ Models 752E and 754E Phase Selectors.

The Opticom model 760E consists of a metal enclosure with a dedicated card slot for one Opticom phase selector or discriminator. Either two- or four-channel units may be used.

The front panel of the Opticom model 760E includes a terminal strip for connecting the Opticom™ Detectors, as well as a 9-pin circular connector and harness to connect the phase selector's outputs, and 24 VDC to power the phase selector.

Features

- Conveniently located connections and harnessing (in the front)
- Rugged construction
- Stable "on-shelf" mounting
- Easy-to-read terminal designations
- Easy installation
- Compliance with CE requirements

TB1 Terminal Block Connections

The terminal block on the front of the Opticom model 760E, 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 760E.

Pins Function

- 1 Channel A (1) primary detector signal input
- 2 Channel B (2) primary detector signal input
- 3 Channel C (3) primary detector signal input
- 4 Channel D (4) primary detector signal input
- 5 Detector power
- 6 Detector power
- 7 Detector ground
- 8 Detector ground



Opticom™ Model 760E Card Rack

J1 Connector

The J1 connector is intended to provide all the signals needed to connect Opticom phase selectors directly to a NEMA controller. It is located next to TB1.

Pins Function

- 1 +24 VDC
- 2 24 VDC ground
- 3 Chassis ground
- 4 Not used
- 5 Channel A priority control output
- 6 Channel B priority control output
- 7 Channel C priority control output
- 8 Channel D priority control output
- 9 Logic ground

Physical Dimensions

- **Length:** 21.6 cm (8.5 in.)
- **Width:** 3.3 cm (5.25 in.)
- **Height:** 13.3 cm (5.25 in.)
- **Weight:** 620 g (1.37 lbs.)

Opticom™ Model 759 European Auxiliary Interface Panel

Description

The Opticom™ Model 759 European Auxiliary Interface Panel (EAIP) provides a convenient area to interconnect Opticom phase selectors and terminals inside a traffic cabinet.

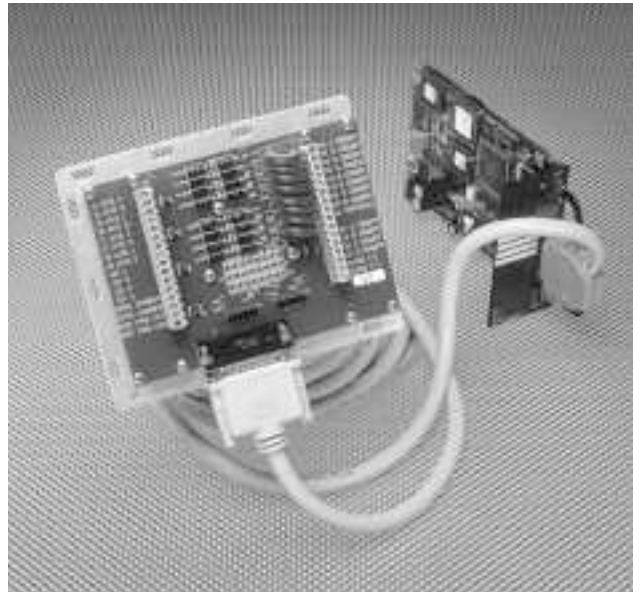
The EAIP contains two terminal blocks for wiring to the traffic cabinet signals and a 44-pin D-subminiature connector for the auxiliary interface cable.

Features

- Conveniently located connections and harnessing
- Rugged construction
- Convenient interconnections to cabinet wiring
- Terminals that accept 22 to 16 AWG wires
- Easy-to-read terminal designations
- Easy installation
- Voltage conversion: high-voltage green sense inputs to low-voltage DC
- Compliance with CE requirements

Physical Dimensions

- **Length:** 17.4 cm (6.875 in.)
- **Width:** 14.3 cm (5.625 in.)
- **Height:** 3.5 cm (1.375 in.)
- **Weight:** 230 g (0.5 lbs.)



Opticom™ Model 759 European Auxiliary Interface Panel (right), connected to Opticom™ Model 754E Phase Selector

Important Notice to Purchaser:

EXCEPT FOR THE LIMITED WARRANTIES SET FORTH IN THIS DOCUMENT, GLOBAL TRAFFIC TECHNOLOGIES (GTT) MAKES NO OTHER WARRANTIES AND EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

GTT will, at its sole option, repair, replace or refund any amounts paid for any Opticom™ Infrared System component found to be defective in materials or manufacture within five (5) years from the date of shipment from GTT. See "Warranty and Extended Coverage" for details and limitations of the coverage plan. GTT will provide a functioning replacement component at a standard charge per unit for an additional five (5) years.

GTT warrants future system operability coverage as described herein. The warranties set forth in this document shall not apply to (A) incandescent lamps (confirmation lights) or (B) any Opticom infrared system components which have been (1) repaired or modified by persons not authorized by GTT; (2) subjected to incorrect installation, misuse, neglect or accident; (3) damaged by extreme atmospheric or weather-related conditions; or (4) subjected to events or use outside the normal or anticipated course.

IN NO EVENT SHALL GTT BE LIABLE FOR ANY INJURY (INCLUDING, WITHOUT LIMITATION, PERSONAL INJURY), DEATH, LOSS, OR DAMAGE (INCLUDING, WITHOUT LIMITATION, PROPERTY DAMAGE), WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR OTHERWISE, ARISING OUT OF THE USE OR INABILITY TO USE, REPAIR OR FAILURE TO REPAIR, ANY GTT PRODUCT, REGARDLESS OF THE LEGAL THEORY ASSERTED. THE REMEDIES SET FORTH IN THIS DOCUMENT ARE EXCLUSIVE.

Sale and use of the Opticom infrared system is expressly restricted to authorized agencies of government customers, within their specific jurisdictions. However, because the infrared signal generated by the Opticom infrared system is not exclusive, GTT does not warrant exclusive activation by purchaser. Authorized users who desire to use or coordinate use of the Opticom infrared system with that of other jurisdictions must first obtain the prior written approval of each authorized user in the jurisdiction where use is sought.



Global Traffic
Technologies

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

Opticom is a trademark of Global Traffic
Technologies, LLC.
Used under license in Canada.
Please recycle. Printed in U.S.A.
© Global Traffic Technologies, LLC 2007
All rights reserved.
75-0500-4551-9 (A)