

3M

Opticom™

Priority Control System

Detector Models 711, 721, 722

An Opticom™ System Matched Component Product

Description

The 3M™ Opticom™ Priority Control System Series 700 detectors transform the optical energy detected from an approaching, vehicle mounted Opticom emitter to an electrical signal. The electrical signal is transmitted along a cable to the Opticom phase selector or discriminator for processing.

Detectors are mounted at or near the intersection that permits a direct, unobstructed line-of-sight to vehicle approaches. Detectors may be mounted on span wire, mast arm, or other appropriate structures.

Models 711, 721 and 722 offer significant advances and flexibility for specific intersection applications. The detectors are designed for common applications in three configurations: one detector - the single channel 711; two detector - the single channel 721; and two direction, two output detection - the dual channel 722. All Opticom 700 series detectors greatly reduce installation and life cycle costs through their modular design, adjustable tubes and compatibility with existing Opticom intersection and vehicle equipment.



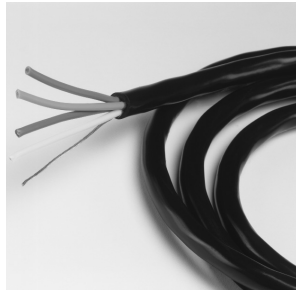
— Models 722, 721 (back) and 711

Features

- **Advanced electrical transient immunity**
- **Modular design**
- **Adjustable turret configuration ... accommodates skewed approaches**
- **Enclosure ... lightweight, durable, high impact polycarbonate construction**
- **Simplified installation ... span wire or mast arm**
- **Gray door identification of Model 722**



Span Wire Clamp



M138 Detector Cable

Accessories

- **Span wire clamp**
- **Model 138 Detector Cable**

Operating Parameters

- Reception range ... adjustable up to 2500 ft. (760 m) (depending on intersection geometry)
- Electrical ... 24 to 28 VDC, 50 MA minimum
- Temperature range... -30°F (-34°C) to 165°F (74°C)
- Humidity ... 5% to 95% relative

Physical Dimensions

Model 711

Length12.0 in. (30.5 cm)
 Width4.75 in. (12.1 cm)
 Height5.63 in. (14.3 cm)
 Weight0.88 lbs. (400 g)

Model 721/722

Length12.0 in. (30.5 cm)
 Width4.75 in. (12.1 cm)
 Height7.73 in. (18.1 cm)
 Weight1.12 lbs. (508 g)

Important Notice to the Purchaser

THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

3M will repair or replace any Opticom™ Priority Control System component found to be defective in materials or manufacture within five (5) years from the date of shipment from 3M. See "Summary of Warranty/Maintenance Coverage" for details and limitations of the coverage plan. This warranty shall not apply to incandescent lamps (confirmation lights) or to any system component which has been (1) repaired or modified by persons not authorized by 3M; (2) subjected to misuse, neglect or accident; or (3) has been damaged by extreme atmospheric or weather-related conditions.

In no event shall 3M be liable in contract or in tort for any injury, loss, or damage, whether direct, indirect, incidental, special or consequential, arising out of the use or inability to use the Opticom system or any component thereof. THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE.

3M has designed, developed and tested each Opticom priority control system component as part of a matched component system. 3M makes no warranty whatsoever concerning the reliability or safety of Opticom system components when used with non-Opticom system products. 3M shall not be responsible for any Opticom component which 3M determines has been damaged in whole or in part by its use with a non-Opticom system product.

Sale and use of the Opticom priority control system is expressly restricted to authorized agencies of government customers, within their respective jurisdictions. However, because the optical signal generated by the Opticom system is not exclusive, 3M cannot ensure exclusive activation by purchaser. Authorized users who desire to use or coordinate use of the Opticom system with that of other jurisdictions must first obtain the prior written approval of each authorized user in the jurisdiction where use is sought.

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