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Manufacturing and Quality Control Striving to produce high quality products.

Rigorous quality control standards and detailed inspections are implemented at various stages in the production process. Fixture “burn-in” provides for an unprecedented 100% testing of all TOMAR products to ensure accurate and trouble free performance for the life of the strobe. Statistical Process Control is used to monitor production quality with detailed precision. TOMAR’s warranties are among the longest in the industry, made possible by the dedication to quality in both the design and manufacturing processes. A computerized system integrating order entry, inventory, and production control helps to facilitate rapid order fulfillment.

TOMAR Online
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TOMAR's 209X–SD and ST model Optical Preemption Detectors sense the optical pulses emitted by properly equipped emergency or transit vehicles. Mounted to observe the approaches of an intersection, 209X–SD and ST Detectors are used with TOMAR 2000 and 3000 Series Optical Signal Processors to inform the traffic control system of the presence of designated vehicles.

Using 209X-SD or ST detectors and Strobecom II throughout your traffic control system reduces emergency response time, allows emergency vehicles to travel with greater safety, and improves transit vehicles timeliness.

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**Optical Preemption Emitters**

An Emitter is a Xenon strobe light system which is mounted on Emergency and Transit vehicles or within our Heliobe™ and Scorpion™ lightbars. The Emitter generates an optical signal. This signal is received by Strobecom II detectors located at the traffic intersection. The emitter is normally wired so that it automatically activates when the emergency lighting is active. TOMAR emitters also include an automatic shutoff, which can be connected to the vehicles parking brake or neutral safety switch. When the vehicle is in park or neutral, the emitter is automatically shut off preventing intersection lockup.

**Optical Signal Processor Cards**

The Optical Signal Processor (OSP) receives the electrical signals from the optical preemption Detectors. While being received, the signals are processed to determine if the vehicle is a valid emergency or transit vehicle.

The OSP is connected directly to the preemption inputs of the traffic controller in the intersection in which it is installed. When a vehicle’s signal is accepted as valid, the OSP sends a preemption request to the proper input of the traffic controller.

The traffic controller then safely manipulates the traffic signals according to a preprogrammed algorithm. Depending on where the traffic controller was in its normal routine the vehicle will receive a "Green Light" after a minimum of 3 or more seconds. Traffic signals which are already green will stay green until the vehicle passes.

**Detector/LED Confirmation Light Assembly**

The 2097 Detector/LED confirmation light assembly combines one of TOMAR's Strobecom II detectors with a low-voltage, super-bright, LED confirmation light in one easy to mount and wire assembly. The weatherproof tilt/swivel mounting hardware is constructed of corrosion resistant anodized and powder coated aluminum and stainless steel with galvanized steel locking nuts.

**Fire Station Mounted Emitter System**

The model FSEMIT Fire Station Emitter System provides a way for emergency vehicles leaving a fire station to preempt nearby traffic intersections and clear traffic blocking the roadway in front of the fire station.

**Strobeswitch Emergency Vehicle Access System**

The model 1790 STROBESWITCH™ is a compact low cost detector which detects a special strobe light signal and opens access gates to allow quick entrance. The detector is activated by the strobe emitters used by most fire department emergency vehicles to control traffic signals en route to a fire. The 1790-1014 STROBESWITCH™ interfaces with the TOMAR model 780–1228–PRE or 3M OPTICOM® traffic preemption optical signal emitters. The model 1790 features a 1/2” female pipe hub mounting base.
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