1790-1014 Strobeswitch™

GATE & DOOR ACCESS SYSTEM



1790–1014
STROBESWITCH™

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 all TOMAR and competitive traffic preemption optical signal emitters. The model 1790 features a 1/2" female pipe hub mounting base.

HOW IT WORKS:
The emergency vehicle uses a special strobe light to transmit a continuously flashing optical signal. The TOMAR 1790–1014 STROBESWITCH™ receives this signal, and if the signal format is correct, activates a relay. The relay contacts may be used to control security gates, fire department garage doors, and other devices. Signaling is optical by line of sight, and the 1790 can operate indoors or outdoors, in bright sunlight, or in any weather. The unit is not susceptible to radio frequency interference, and uses digital frequency discrimination to reject unwanted signals, such as flashlights, emergency vehicle lighting systems, flashing signs, etc.



2795–2 Dual
STROBESWITCH™ Assembly



1790M–2
Power Module



*Hand Held Tester

*The sale of this item is restricted to state and local governments and to authorized distributors only.

1790-1014 Strobeswitch



Specifications

Item	Description
Range	200 feet typical, but depends on intensity of strobe emitter
Field of View	10° vertical, 90° horizontal
Signal Acquisition Time	0.64 seconds
Function Indicator	The unit has a red LED that illuminates whenever a proper optical signal is received. The LED is visible thru the viewport and can be seen for 25 feet or more. This feature can be used with the optional Hand Held Tester to verify the unit's operation.
Frequency	F14 = 14.035 Hz ± .25 Hz (high priority) F10 = 10.000 Hz ± .25 Hz (low priority)
1790M–2 Power Module	12–24VDC AC/DC DPDT relay output 2A @ 30VDC, 0.6A @ 120VAC 0–30 minute time delay plus continuous latch mode Remote reset

Ordering Information

Model No.	Description
1790–1014	Strobeswitch only
1790–1014–S&M2	Strobeswitch and power module
1790–M2	Power module only
2795–2	Dual Strobeswitch and power module

Available Options

Model No.	Description
1760–14	Hand held tester for Emergency band
1760–10	Hand held tester for Transit band