



SOLAR TRAFFIC CONTROLS

“Wireless” Traffic Control Solutions

Warehouse / Industrial Traffic Controller

Model 80ITSWHTC-DW-T-SO 60031

for Blind Driveway Approach to Cross Pedestrian Traffic

Approach Only Sensor, Rev. 1.0, 03/24/06

General

This system is designed to increase safety for users in blind exit driveway approach to cross traffic situations where basic traffic control is required, yet costs do not warrant a full-blown traffic signal. The system consists of one directional microwave detector, the control unit and two red/yellow traffic indicators located at each either side of the driveway. Figure 1 shows a diagram of the system set up in a typical application.

Theory of Operation

This system is sensor activated. The sensor is configured as a directional sensing device near the end of the driveway. The sensor is located a distance ‘d’ from the end of the cross traffic path where ‘d’ is determined by the typical speed of the approaching vehicle. Faster moving vehicles will require a longer distance to warn cross traffic of the approaching vehicle. The sensor is configured as an approach-only detector.

Under normal conditions the yellow lamps on either side of the driveway will be in the yellow flash mode in an effort to warn cross traffic to use caution when

crossing the driveway. When a vehicle approaches, the sensor will detect the vehicle and trigger the system. The lamps then change from a flashing yellow state to a flashing red state and finally to a red solid thus causing the cross traffic to the driveway to stop for the vehicle. The system will remain in the red flash and red solid for a programmable amount of time that will need to be adjusted in the field by the user. The default value for the red flash is 2.5 seconds and the red solid is 10 seconds. The unit is also equipped with a self test button to allow the user to check operation.

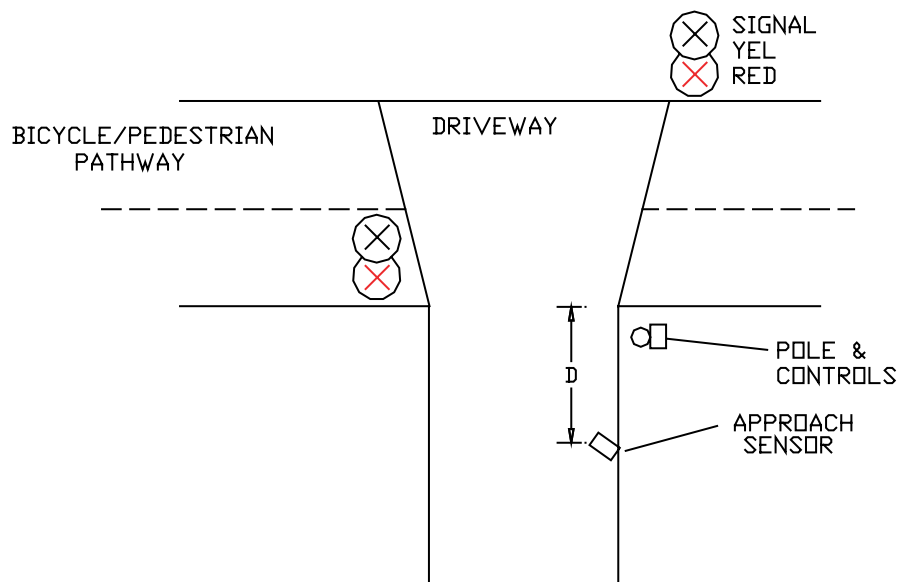


Figure 1: Typical blind driveway application with approach-only sensor

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