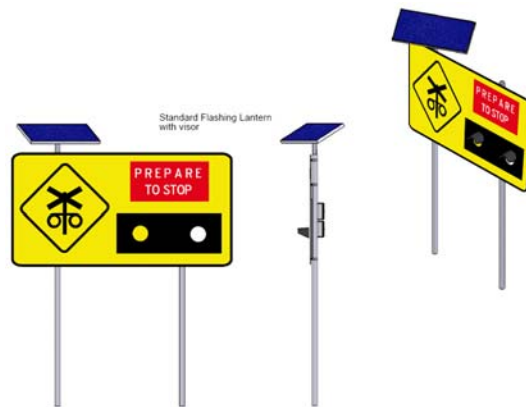




SafeZone ADC & AAWS Installation Overview:

A pictorial guide



July 2010

'SafeZone: making our roads & railways safer'

SafeZone ADC & AAWS Installation

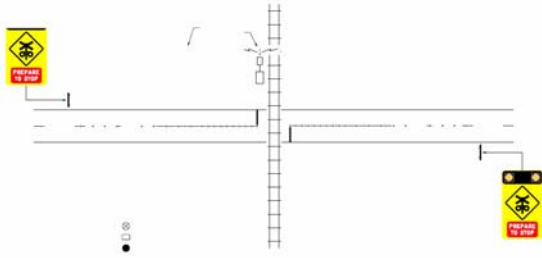
This pictorial guide is intended as an overview only to highlight the simple procedures required to successfully install ADCs (Alert Device Controllers; also called Primary Controller Repeaters) and AAWSs (Advance Alert Warning Signs). These devices are the primary control elements within the SafeZone suite of detection and alert devices. AAWSs also provide advance visual alerts to enhance road and rail safety through delivering more effective alerts to drivers of a danger condition that requires them to slow down and/or stop.

Installation crews should refer to the latest release version of the complete IRAD Installation Guide before installing ADCs or AAWSs.



SafeZone ADC & AAWS Installation

A - Work site preparation & Installation



STEP 1: Site design

Positioning of ADCs and AAWSs depends on application, site topology, etc. However, the flexibility of SafeZone's modular architecture allows high degrees of flexibility and adaptability to address a wide range of applications.

STEP 2: Preparing work site

Because these devices do not require any major civil works either on the roadway, roadside or trackside, setup and installation times are greatly reduced, as are costs.

ADCs are installed in a location adjacent to existing boom gate or active wigwag control systems.

AAWSs are installed on the approaches to a pedestrian or rail crossing to provide sufficient advance warnings that drivers are approaching a danger zone. AAWSs may be installed in conjunction with IRADs.

STEP 3: Erecting Control Masts & Warning Signs

ADCs and AAWSs are installed as per any standard street sign. There are no special procedures required.

Signs that are solar, not mains powered, will require that installation procedures appropriate to positioning signs and aligning panels are observed.

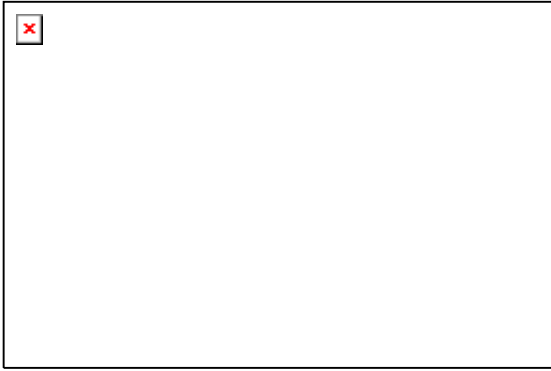
Note that the particular design of an ADC or AAWS will depend on application, location, power source, control inputs required, etc.

ADCs are generally located adjacent to the control input system: eg wigwags at a rail crossings; or push-to-walk actuators at a pedestrian crossings

Because ADCs can be, and AAWSs are generally self-powering (solar), their positioning does not require any considerations with respect to external power. This minimises or eliminates any need to trench and power or control signal lines.

SafeZone ADC & AAWS Installation (continued)

B – ADC & AAWS Commissioning



STEP 4: Commissioning

ADC and AAWS commissioning is site specific but generally takes less than a day. Commissioning includes connecting to external control lines, testing of 3G communications, optimisation of antenna installation, etc.

In Service

AAWSs can be installed with or without IRADs.

