

AGD929 COMBINED EQUESTRIAN NEAR SIDE SIGNAL

■ General

The AGD929 Combined Equestrian Nearside Signal incorporates both a Equestrian Nearside signal and pedestrian demand unit with 'call accept indicator'. The AGD929, designed for use on equestrian crossings should be mounted on the upstream pole from the wait area. The Combined Equestrian Nearside signal runs from a nominal 48V ac. If the controller employs dimming, the signal will automatically be lit to the dim level on the application of power within the specified voltage range for dim operation. The signal is fully off when the applied voltage $\leq 25\%$ of the nominal supply voltage. An AGD921 Demand Unit (supplied separately) is also available for crossings requiring repeat Equestrian demand units. The AGD921 also incorporates the 'call accepted' indicator.



■ Site Design Considerations

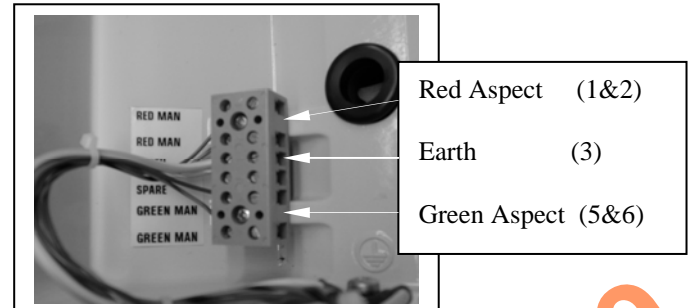
The position of the pole to which the signal is to be mounted should be chosen carefully for each individual site bearing in mind the various mounting requirements of the equestrian and vehicle signals and also the equestrian and vehicle detection equipment which is to be fitted. The Near Side Signal should be mounted to the pole such that when the signal is viewed from the designated wait area the waiting equestrian will also be facing the oncoming traffic in the nearby lane.

For Equestrian crossings, the demand units should be positioned on the pole such that the push button should be at a height suitable for mounted rider operation and if a repeater demand unit is used for walking riders this should be in the range 0.90m to 1.25m from the ground depending on the local authority requirement. The near side signal should be positioned above the upper demand unit with a 10mm gap between the upper two enclosures. Both units are supplied with U-bolts for fixing to the pole in the usual manner. The signal should be positioned on the pole such that the optical axis is approximately 30° from the direction of the kerb edge.

Due to the nature of the crossing (horse and rider alone, or combined with cycle and/or pedestrian facilities) and the need to keep both equestrians and their mounts and pedestrians safe, referral to the latest Department of Transport Traffic Advisory Leaflet relating to Equestrian Crossings should be made.

■ Electrical connections

The signal head is designed to work around 48v a.c. If the controller drops the voltage for night-time environment the unit will auto select the correct light intensity. It is essential that the signal head is connected to the correct power supply where connection is made internally. The supply is brought through the back of the unit from the pole to be connected to the screw terminal. Consideration must be given to the multiple grounding of supplies and its effect on the whole system. The signal head is connected to earth also at the terminal.



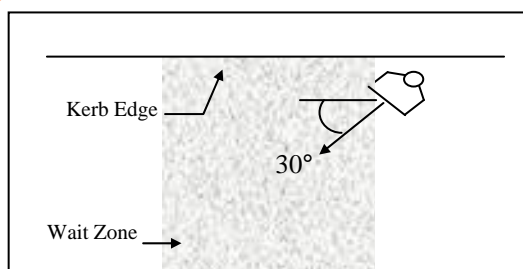
In some installations where the supply is at a greater distance there may be a voltage drop caused from the resistive load of the wire. This may result in incorrect dim operation. To overcome this problem the threshold should be adjusted. This threshold can be selected for each aspect via a jumper located on both PCB's adjacent to the supply connections. It is recommended that both aspects be changed together at the same time and tested during commissioning.



■ Installation

The AGD929 should be positioned on the pole such that the push button should be at a height suitable for equestrian (mounted and/or leading the horse) from the ground depending on the local authority requirement. All units are supplied with U-bolts for fixing to the pole in the usual manner. For 240mm centre fixing use the larger U-bolt supplied in the mounting kit.

The signal should be positioned on the pole such that the optical axis is approximately 30° from the direction of the kerb edge.



Overhead view of kerbside

Contents of the Mounting Kit

- 2 off M8 Nyloc nuts
- 2 off Sealing washers
- 2 off Large diameter retaining washers
- 1 off U Bolt (200mm centres)
- 1 off U Bolt (240mm centres)
- 1 off Safety Earth label.

■ The installation should conform to the latest edition of IEE Wiring Regulations (BS7671).