

AGD

ADVANCED
GLOBAL
DETECTION
SYSTEMS

AGD940/942

NEARSIDE SIGNAL PUFFIN & TOUCAN (STANDARD & NFOV OPTICS)

Customer information

GENERAL

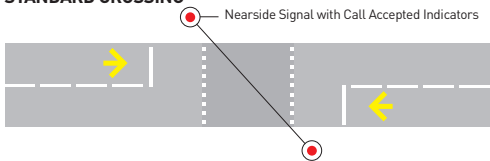
The AGD940 (Puffin) and AGD942 (Toucan) nearside signals are designed for use on pedestrian crossings and should be mounted on the upstream pole from the wait area. The nearside signal runs from a nominal 48Vac. If the controller employs dimming, the signal will automatically be lit to the dim level 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 AGD941 Demand Unit (supplied separately) will need to be installed to allow a call or crossing demand to be entered to the controller. The AGD941 also incorporates the call accepted indicator.

The units are available with either Standard or Narrow Field of View(NFOV) Optics.

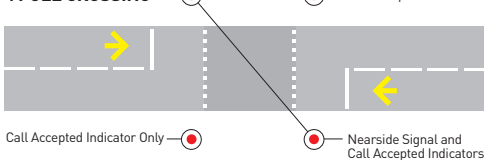


SITE DESIGN CONSIDERATIONS

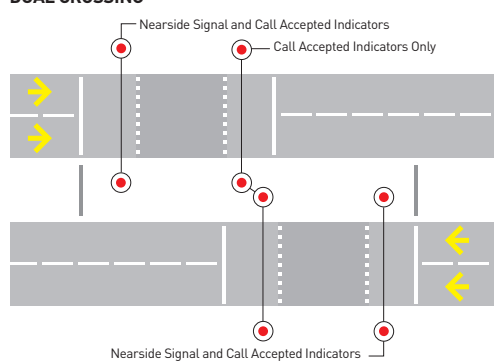
STANDARD CROSSING



4 POLE CROSSING



DUAL CROSSING

**AGD Systems Limited**

White Lion House, Gloucester Road, Staverton, Cheltenham, Gloucestershire, GL51 0TF UK

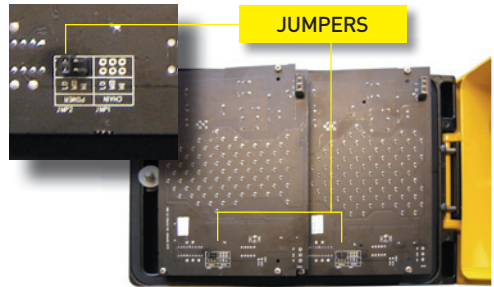
☎ +44 (0) 1452 854212 www.agd-systems.comF: +44 (0) 1452 854213 E: info@agd-systems.com For product regulatory information please visit www.agd-systems.com

ELECTRICAL CONNECTIONS

The signal head is designed to work around 48Vac. 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.

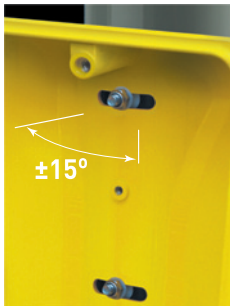
For correct operation with all controllers and especially ELV with DCM (Lamp Monitoring), the Jumper for both red and green aspects, as shown, should be in the **LOW**

position. Failure to adhere to this may compromise the correct operation for ELV and DCM functionality.



INSTALLATION

The AGD941 demand unit should be positioned on the pole such that the push button is in the range 0.90m to 1.25m from the ground depending on the local authority requirement. The AGD940/942 nearside signal should be positioned above the demand unit with a 10mm gap between the two enclosures. All units are supplied with U-bolts for fixing to the pole in the usual manner.



■ Lateral adjustment ($\pm 15^\circ$) and central locking screw



■ Wrap-around shape that hugs the mounting pole

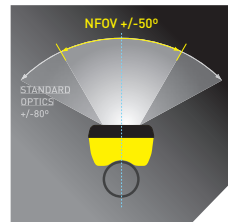
Contents of mounting kit (including mounting details)



Safety Electrical Connection - Do Not Remove

The AGD940/942 signals should be mounted in accordance with the Puffin Good Practise Guide available from the DfT in relation to the kerb edge and wait area.

These Puffin and Toucan signals employ a lateral adjustment of ± 15 degrees from the centre to allow for final on-site viewing angle adjustment eliminating the need for re-drilling the pole. The rear of the enclosure has a foam gasket to prevent moisture ingress and when adjusting the lateral angle it is therefore important to slacken off the fixing bolts sufficiently to allow ease of movement around the pole. Once correctly positioned lock the unit in place by tightening the U-bolt fixings and finally the locking grub screw located in the centre of the rear housing (see picture).



■ Standard optics $\pm 40^\circ$ on axis. NFOV option $\pm 25^\circ$ on axis.

The special NFOV (narrow field of view) optics feature a reduced viewing angle on the green man/green man and bicycle reducing the potential for 'read through' and ensuring the pedestrians focus remains with the main nearside signal.