

NicheTrafficSolutions Ltd
Your Ideas In Action

CASE STUDY:

‘STERILe dEmand Unit

THE CHALLENGE

At the beginning of the COVID-19 pandemic, it was made clear that transmission of the virus was, in the main, by air and by human hand/body transmission. In order to alleviate the human hand transmission, it was necessary to design and build a solution that would prevent the transmission of **any** virus via the pedestrian push button.

THE INITIATIVE

The vision was to create a contactless demand unit, as an augmented solution to the existing Pedestrian Demand input: The solution could actually replace the existing Push Button input altogether, however, after Local Authority consultation, it was agreed that augmented option was the preferred solution; and so the design began.

DESIGN BRIEF

The design brief for the system was as follows:

The Solution Must:

1. Be able to operate within the voltage range of 24V – 90V AC/DC
2. Be able to operate within the requirements of the current TOPAS specifications.
3. Must provide an output as the action of a human hand is ‘Waved’ over the **existing Push Button Unit**; in line with current practice, and NOT underneath.
4. Must provide for a simple Kit of Parts (KoP) for any installation,
5. Contain a KoP (if required) with specific installation instructions.

SOLUTION

Niche Traffic Solutions Ltd, then designed the electronics and produced the Software to provide a solution for the ‘STERILE’ Contactless Demand Unit: The idea was to emulate a pedestrian demand by the simple ‘Wave’ hand gesture over the standard Push Button; NOT UNDERNEATH.

THE PUBLIC IMPACT

- Assists in preventing the spread of the Covid-19, and other surface borne viruses.
- Assists in preventing the spread of viruses into schools when used at crossings en route to the 'school run'.
- Provides stability of engineering, production and local services due to less 'COVID-19 Isolating'.
- Assists in reducing a secondary/tertiary 'COVID-19 Spike' and the possibility of a second/tertiary 'Lockdown' as has been witnessed in other areas of the UK.
- Instils confidence in the general public that the authority is taking positive measures to keep their day to day activities as safe as possible.
- If the public feels safe, they are likely to venture out more, and hence stimulate the local economy.
- Acts as a secondary 'demand' unit in case of vandalism or failure of the mechanical push button.

TRIAL FEEDBACK RESULTS

The initial six trial sites across the UK, are being extended into full schemes.

Customer feedback endorses the use of the STERILE Contactless Pedestrian Demand Unit.

Currently, the following counties have demonstrated that the STERILE unit is an acceptable solution: -

Denbighshire over 50 units;

Conwy 223 units;

St Albans additional over 200 units;

Anglesey order for 40 units


ENDORSEMENTS

Endorsed by St Albans, Anglesey, Conwy CC, Denbighshire CC

If you require any further information, please contact us using any of the methods listed below.

Regards

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