



## Multiphase ADS reduces average queue lengths at temporary traffic lights by 50%.

Multiphase ADS works by connecting a high accuracy radar detector (which collects vital data about real time traffic volumes and speeds at the roadside) to temporary traffic lights using a clever algorithm that adjusts the green time at traffic lights for optimum traffic management.

The busier the road, the greater the benefit from using this unique technology, which also takes into account site-specific factors like HGV lag. It also utilises green time of up to 60 seconds, significantly reducing interstage time (the period between one set of lights going red and the next going green) to further improve traffic flow.

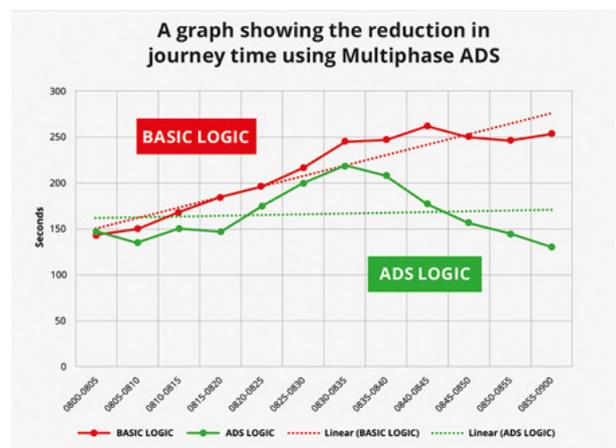
SRL's Multiphase ADS is especially effective in areas with tidal traffic flow because of its ability to reduce the build-up of traffic moving in a single direction. Once peak flow has diminished and congestion eases, this dynamic system adjusts the green time to reflect the quieter traffic conditions.

### BENEFITS FOR ROAD USERS

Confident in the ability of our product to reduce congestion we looked to substantiate our in-house findings, so we asked independent consultants and industry experts at IRConsultancy/Bryan G Hall to conduct an objective study of the system using a 'live' scenario with 3-way control, in a heavily saturated tidal flow location in Yorkshire.

**Over a one hour period at the test junction with 3-way control, the impact of replacing basic logic with SRL's Multiphase ADS was:**

- ✓ Reduction in queue lengths by 50%
- ✓ Reduction in maximum queue length by 29%
- ✓ Reduction in average journey time during peak flow by 40% (between 8.40am and 9.00am across all routes)
- ✓ Reduction in journey time for the route with the highest flow of traffic by 52% (North to South in the study)



SRL's innovative Multiphase ADS provides a genuine solution to the problem of congestion around temporary road works. It is the only product able to offer 2, 3 and 4 way control.

Independently modelled by: **BRYAN G HALL**  
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