

PEDESTRIAN CROSSING (VAP) (LINKED-BASED PEDESTRIANS)

Short description

Signalized pedestrian crosswalk where green is switched only on pedestrian demand. Pedestrians are modelled as simple (linked-based) pedestrians.

Requirements

PTV Vissim Modules: VAP

Modelling Technique

Simple 2-Stage signal control using VAP. For vehicle traffic (stage 1) continuous green is displayed until a pedestrian demand appears. Pedestrian demand is detected with loops "in the pavement" rather than with switch buttons in order to simplify the control logic. This modelling method does not affect the operational behavior of the signal control.

Minimum green times are checked in the program logic and thus are not included in the interstages.

To simplify modelling, in this example pedestrians are modelled as link-based pedestrians. These are small vehicles with an adapted "car"-following behavior. As with vehicles, this kind of pedestrians cannot move omnidirectional on an area but only in link direction. In addition, contraflows cannot be modelled. A similar example with „real“ (=Viswalk) pedestrians is located in PED CROSSING.VAP.