FORBIX SEMICON traffic light scheme for common way

Problem Statement:-
1. Only 1 vehicle can pass the (either direction) in a given time.
2. Distance of the common road (100m – 1Km)

Solution:-
1. Individual button and traffic light pole:
   Manual switching control:
   - Turns ON green light and automatic OFF after 30 – 180 seconds (programmable)
   - Wireless communication between button pole and traffic light pole

2. Individual sensor pole and traffic light pole:
   Automatic switching control:
   - Turns ON green using vehicle detection sensors
   - Wireless communication between sensor pole and traffic light pole

3. Common switch button and traffic light pole.
Solution 1

When the button is pushed, traffic lights will be ON only for 30-60 seconds (predefined).

Only one vehicle can pass.

Moving out vehicle detector sensor

Vehicle movement towards east

Vehicle movement towards west

Moving in vehicle detector sensor

Traffic light

Wireless communication

Control receiver
FORBIX SEMICON common road vehicle moving system with automatic switching control

Solution 2

Vehicle movement towards west

Vehicle detection sensors
Moving in vehicle detector sensor

Vehicle detector sensor

Wireless communication

Only one vehicle can pass

Traffic light

Vehicle movement towards east

Vehicle detector sensors

Moving out vehicle detector sensor

Vehicle detection sensors

Vehicle detector sensor

Vehicle detector control receiver

West Entry

West Exit

East Entry

East Exit
Solution 3

West Entry

Traffic light pole with manual switch

Only one vehicle can pass

Traffic light pole with manual switch

East Exit

Vehicle movement towards east

West Exit

Vehicle movement towards west

East Entry

Only one vehicle can pass
FORBIX SEMICON transmitter receiver system

Positioning of the vehicle detector on the pole

- Vehicle detector sending detected signal to the traffic light control receiver.
- If no vehicle detected no signal will be sent.
FORBIX SEMICON transmitter receiver system

Manual push button to activate GREEN lights

Wireless communication

1-2 Kms

2-3 feet

Manual button pressed to turn remote signal GREEN for a predefined time

2-3 feet

1-2 Kms