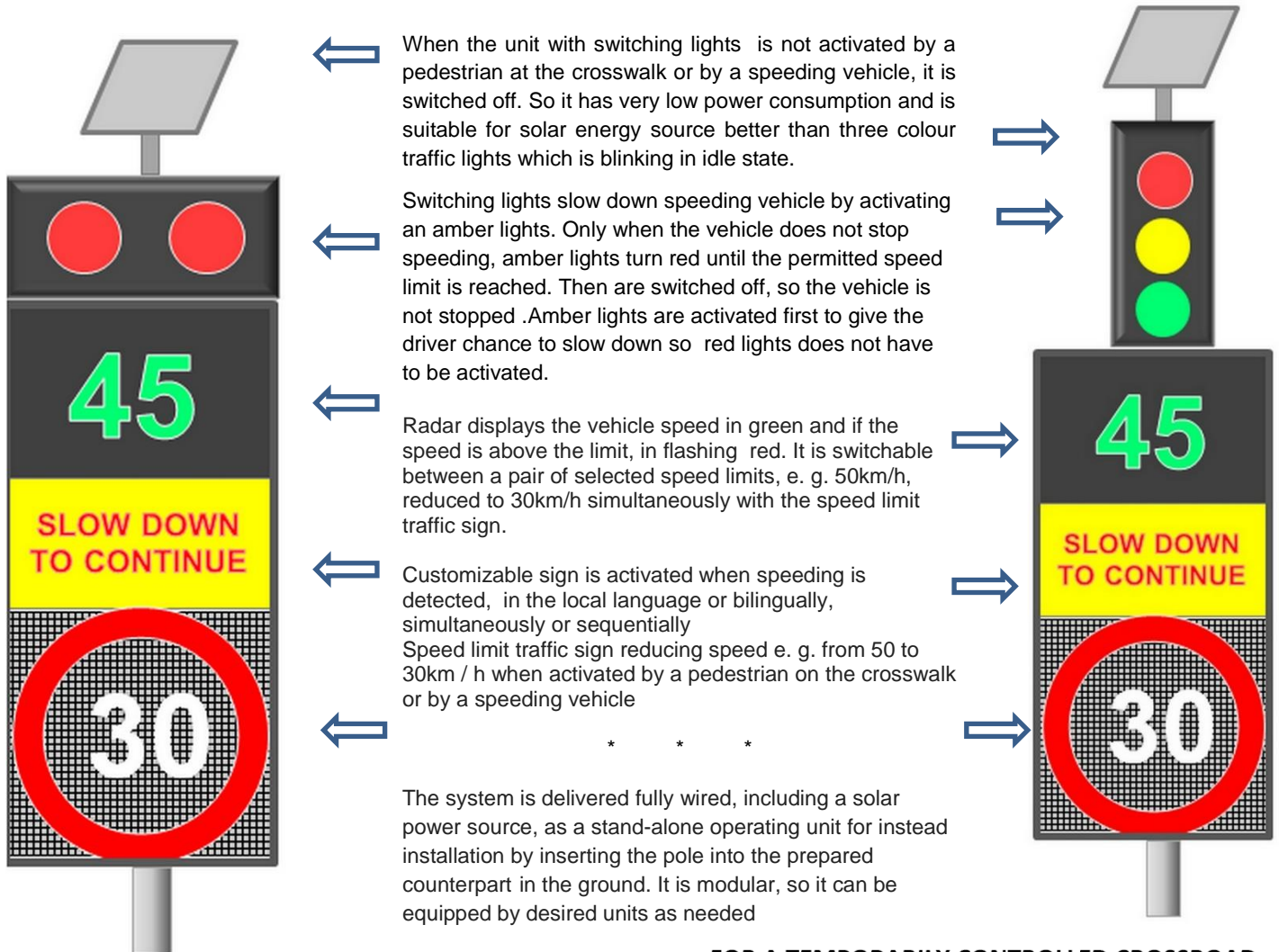# COMPACT SPEED CONTROL

NOT STOPPING, BUT ONLY SLOWING DOWN SPEEDING VEHICLES

to permitted speed limit for

CROSWALKS, INTERSECTIONS, SPEED LIMIT ROUTES
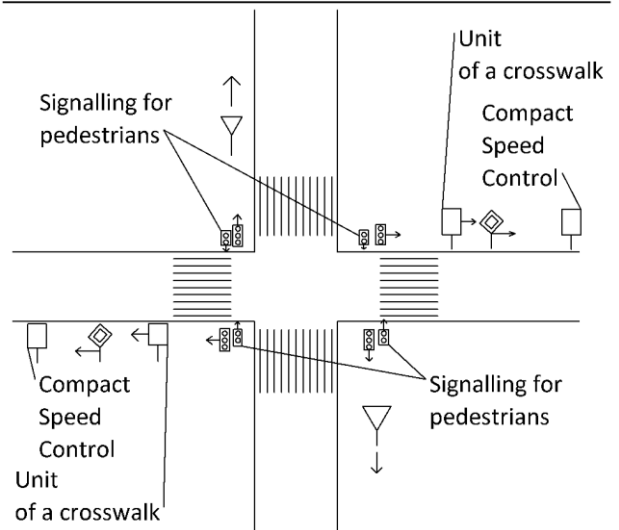
on main roads in towns and villages. Equipment can be selected as needed.

When the unit with switching lights is not activated by a pedestrian at the crosswalk or by a speeding vehicle, it is switched off. So it has very low power consumption and is suitable for solar energy source better than three colour traffic lights which is blinking in idle state.

Switching lights slow down speeding vehicle by activating an amber lights. Only when the vehicle does not stop speeding, amber lights turn red until the permitted speed limit is reached. Then are switched off, so the vehicle is not stopped .Amber lights are activated first to give the driver chance to slow down so red lights does not have to be activated.

Radar displays the vehicle speed in green and if the speed is above the limit, in flashing red. It is switchable between a pair of selected speed limits, e. g. 50km/h, reduced to 30km/h simultaneously with the speed limit traffic sign.

Customizable sign is activated when speeding is detected, in the local language or bilingually, simultaneously or sequentially
Speed limit traffic sign reducing speed e. g. from 50 to 30km / h when activated by a pedestrian on the crosswalk or by a speeding vehicle

*   *   *

The system is delivered fully wired, including a solar power source, as a stand-alone operating unit for instead installation by inserting the pole into the prepared counterpart in the ground. It is modular, so it can be equipped by desired units as needed

The intersection is normally uncontrolled so the traffic lights are turned off. Vehicles on the main road have priority. A pedestrian activates the compact crosswalk signalling and in the same time the speed limit sign 30 to slow down vehicles. It works as the uncontrolled crosswalk (see other side).

A vehicle coming from the non-priority road gives way to the main road. A sensor detects such a vehicle waiting to cross the intersection. When within the adjustable time, the vehicle fails to cross it, the signs 30 (20) km/h on the main road are activated. When even this does not help, the intersection is temporarily switched to a controlled one. The non-priority road gets a green, and the main road red light so the waiting vehicle can cross the intersection. Traffic lights can be also turned on automatically or manually when needed, e.g. by heavy traffic or by a handicapped pedestrian, to make the intersection controlled one.

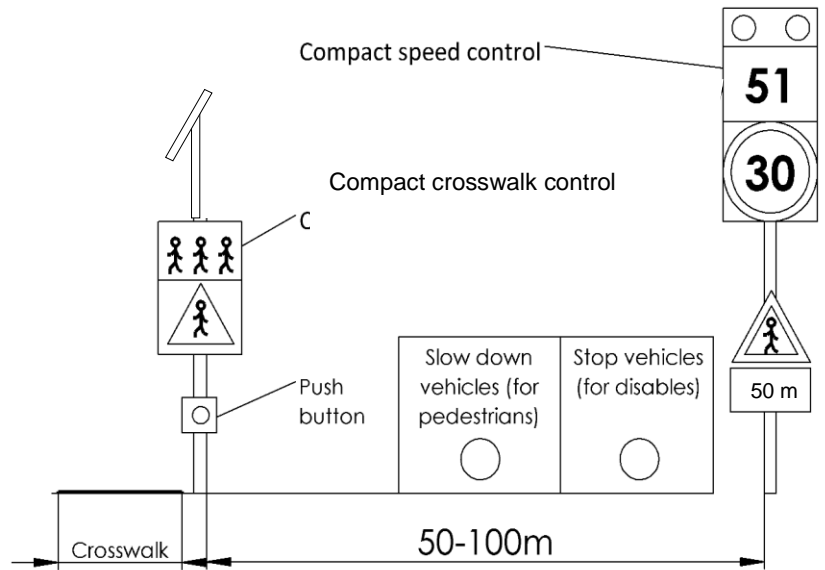## FOR A TEMPORARILY CONTROLLED CROSSROAD

COMPACT SPEED CONTROL

Uncontrolled crosswalk: The pedestrian activates compact crosswalk control by a button manually or it is activated by a sensor automatically and simultaneously is activated a speed limit traffic sign 30 (20)km/h placed on the compact speed control 50 – 100 m ahead of crossing. Simultaneously, a radar unit is switched from 50 to 30 (20)km/h, for measurement and displaying the speed of vehicles exceeding the speed limit in red colour. The pedestrian waits until the vehicles slow down and passes. Vehicles moving above 30 (20) km/h are slowed down by the red light of the upstream speed control traffic light. Once the vehicle speed is reduced to 30 (20) km/h, the traffic light is deactivated. Thus, vehicles are not stopped. When the crosswalk control and therefore also the sign of 30 (20)km are not activated, vehicles travelling above 50km/h are slowed down. Vehicles travelling above 70km/h (adjustable) are slowed down to 30 (20)km/h by activation of the traffic sign 30 (20)km/h and by traffic lights for highlighting the driver's offence of extreme speeding. A dummy camera with infrared flasher, exchangeable by a real one motivates the driver to respect the speed limit and the crossing rules (slowing or stopping for pedestrians).
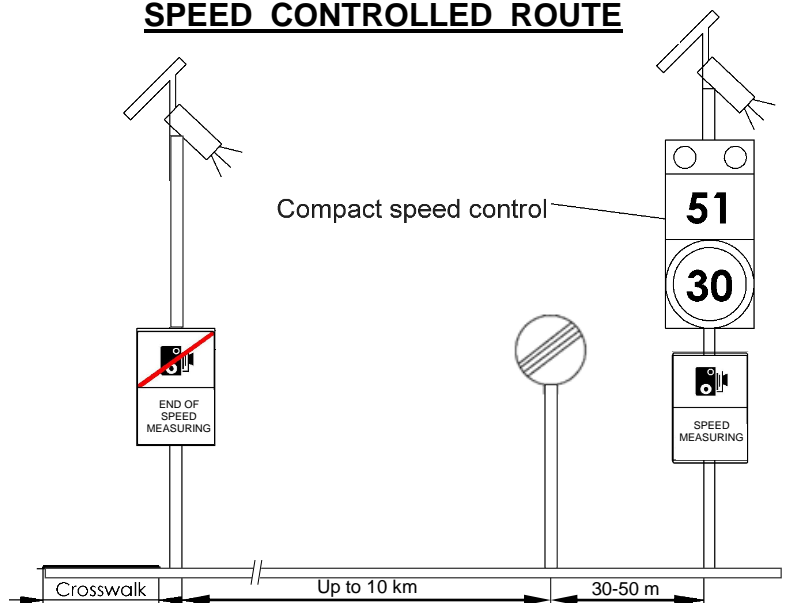
Temporarily controlled crosswalk – In comparison to an uncontrolled crosswalk, additionally, three-colour traffic lights or alternately switched red lights are installed on the compact speed control. They are not activated in idle state. Signalling is the same as on the case of uncontrolled crosswalk. The difference is by pushing a button for disabled persons or by a speeding vehicle when the uncontrolled crosswalk becomes temporarily controlled by activating this traffic lights. To a pedestrian is signalled green and to vehicles red light in the usual sequence of lights used to control a crosswalk with traffic lights. Speeding vehicles are slowed down to the desired speed by red traffic lights. The uncontrolled crosswalk can be switched over to controlled one also manually or automatically when a situation requires it, for example during rush hour.

When the speed limit is exceeded, radar displays the vehicle speed instead of in green in red colour and traffic lights slow the vehicle to the speed limit. When speed is exceeded by more than 20 km/h the speed limit sign 30 (20) km/h (adjustable) is activated and the traffic lights decelerate the vehicle to this lower permitted speed as a penalty for extreme speeding to warn the driver not to exceed the speed limit again.

Signs announcing the start and end of the speed measurement, along with dummy cameras with infrared flashers (exchangeable for real ones), are placed at the beginning and end of the up to 10 km long controlled route to motivate drivers to observe the speed limit not only at the traffic lights, but also during the whole passage through a village or a town.

SPEED CONTROLLED ROUTE

MAKE YOUR OWN

COMPACT SPEED CONTROL

WITH MODULAR SYSTEM AS YOU NEED IT
..

MODULES

COMPLET

solar energy source

lights to opposite direction

alternately switched lights

three colour semaphor

control unit

45

speed of vehicle

speed limit sign

slow down sign

pedestrian illumination reflector

mast

45

SLOW

30

SEMAPHORE

45

SLOW DOWN TO CONTINUE

30

ALTERNATELY SWITCHED LIGHTS