TWEETY

PEDESTRIAN TOUCH SOUND BUTTON

Applications

TWEETY pedestrian touch sound button is suitable for being installed within signalized pedestrian crossings in order to request the green light signal by common pedestrians and blind people according to what provided by Road Code.

The pedestrian button can be used by two kind of users, common pedestrians and blind people.

The request of walk signal made by common pedestrians is sent to the traffic controller so that it can start in the traffic-light cycle the concerned phase and send a feedback used by the device for activating a luminous signal as confirmation of the accepted request.

Used by blind people for requesting the walk signal by a special touch sensitive switch, it offers an immediate response via a sound and vibration confirmation for all the request duration.

TWEETY offers many operating features thanks to a great flexibility and programming options that makes it suitable to satisfy any specific customer request.

Switch for blind people walk signal

General features

TWEETY push-button is represented by a box containing all of the necessary circuitry. It is generally placed at a standard height from pavement of 1.10 - 1.20 mt mounted on a traffic pole or wall near the pedestrian crossing.

It offers two types of pedestrian request:

1. The first request is made by a touch sensor, a button operating without need of typical mechanical pressure of the traditional button, located on the front side of the box for being used by common pedestrians.

2. The second request is made by a switch in a hidden position, on the bottom part of the box in order to avoid as much as possible unnecessary activations, but recognized by visually impaired persons, identified by a touch-sensitive surface with the addition of direction indicator and position of the person in the crossing point.
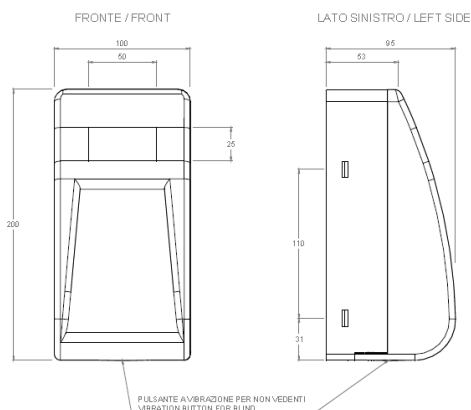
The construction of the button is totally in polycarbonate with an IP55 protection degree, made of adequate and sturdy thickness resistant to normal vandalism.

Control of functionality is entrusted to a microcontroller of adequate capacity that processes and controls the different peripheral elements: it records the request, displays the status of the reservation associated with vibration of the button and / or noise emission, it displays the traffic light status during the course of the cycle on the multicolour backlit graphic display emitting an acoustic signal, if properly reserved, and alternatively emitting a voice message.

The acoustic emission during the associated green phase will be adjusted according to environment noise within the laws on environmental noise abatement.

It is available in three colours: Dark Green (standard), Yellow and Black (on request).

It can be adapted and used for other functions within signalized intersections such as for walk requests of bicycles, etc.

Main functions

- Isolated power derived by the associated pedestrian signal
- Control of microcontroller driving logic
- Display interface using RGB backlit graphic display or LED
- Possibility of issuing appropriate voice messages anywhere in the pedestrian phase
- Confirmation of the pedestrian request through acoustic response (buzzer) and vibration
- Request of operation via touch sensor
- Request command for visually impaired people by switch
- Noise emission in the green and yellow phase (or green end) with different frequencies and controlled by the ambient noise

Technical data

- Power supply 230 AC +15% -20% driven by associated pedestrian signal; other power are available according to the realized type of intersection
- Frequency 50 –60Hz
- Consumption ~10W
- Sound pressure of green acoustic signal from 40 to 70 dBA
- Customizable sound mode
- Operating temperature from -40°C to +60°C (with display -20°C +60°C)
- Protection degree IP55, class II
- Box in paste coloured polycarbonate and UV stabilized
- Dimensions 200x100x70mm
- Conformity EN50293, CEI 214-7

Example of Messages that can be displayed

*Technical specifications subject to change without notice