

## SMART PEDESTRIAN CROSSWALK TECHNICAL DATA SHEET

### SPC MAIN MODULE (E-CASE)

2 in total, 1 per side

### DIMENSIONS

300 x 400 x 210 mm (W x H x D)

### WEIGHT

15 kg

### COMMUNICATIONS

4G for mobile data

Pre-installed underground CAT cable or 60 GHz

802.11ad wireless link between two sides

### AUDIO

20 W speaker

Custom sound alarm 800-2500 Hz

Max 65 dB

### ADDITIONAL INFORMATION

### INPUT VOLTAGE

230 VAC, 50 Hz

### POWER CONSUMPTION

Theoretical max 120 W per side, 240 W total

Average 50 W per side, 100 W total

### TOTAL WEIGHT

30 kg on one pole

### OPERATING CONDITIONS

Temperature -20 °C to 50 °C

Humidity 95% or less (non-condensing)



### CROSSWALK SIGNS

4 in total, 2 per side, 1 per direction, IP65

### COMPLIANCE

EN 12899-1:2007/AC:2013

### DIMENSIONS

600 x 600 mm (W x H), fully illuminated

### LED COLOUR

White, controllable brightness

### POWER

12 VDC, 21.5 W max per sign

### WEIGHT

7,5 kg per sign (two signs on one post)

## LED WARNING LIGHTS

8 in total, 4 per post, 2 per direction, IP67

## FLASHING FREQUENCY

60 times per minute

## LED COLOUR

Amber, controllable brightness

## POWER

12 VDC, 2.75 W max per light

## PEDESTRIAN DETECTION

Additional information concerning pedestrian detection

## CAMERA

2 in total, 1 per side

4 MP, 25 FPS, 2.8 mm, 131° FoV, IR, IP67

Attached to the main module

Custom detection zone, up to 25 m

## OBJECT RECOGNITION

Machine learning algorithms for VRU detection (pedestrians, cyclists)

Data processing inside the device

## DATA

Accessible through Bercman Management Console or via API

Count of pedestrian crossings, both ways;  
Average crossing and waiting time; Foul crossings, both ways 2 classes (Pedestrian, Bicycle)

2

## INSTALLATION

Refer to the installation guide for more details

## INSTALLATION HEIGHTS

E-cases - 3.5 to 4 m

Crosswalk signs - see local guidelines, 2.6 to 3.2 m

LED warning lights - 80-100 and 150-200 cm

## POLE PREREQUISITES

Minimum 76 mm diameter

Minimum 4 m height

## VEHICLE DETECTION

Additional information concerning vehicle detection

## RADAR

2 in total, 1 per side

77 GHz, 32° azimuth and 15° vertical Fov, up to 175m maximum detection range, up to 6 lanes, up to 256 simultaneously detected objects, IP67

Attached to the main module

## CLASSIFICATION AND DATA

Accessible through Bercman Management Console or via API

Detection of driving in restricted areas; Detection of driving in the wrong direction; Different percentile speed; Speed trigger for detection of speeding.

5 classes (Motorbike, Passenger Car, Transporter, Truck/Bus, Long truck)