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Smart Pedestrian Crosswalk

Technical Data Sheet

Technical Data

Made in **Europe**

Smart Pedestrian Crosswalk				
SPC Model	S	M	M+	Hybrid
SPC main module				
Electronics Cabinet	2 in total, 1 per side			
Dimensions (HxWxD)	300 x 300 x 210 mm			300 x 400 x 210 mm
Weight	15 kg			20 kg
Communications	4G for mobile data; Pre-installed underground CAT cable or 60 GHz; 802.11ad wireless link between two sides			
Audio (optional)	20 W speaker; Custom sound alarm 800-2500 Hz; Max 65 dB			
Crosswalk Signs				
Backlit signs	4 in total, 2 per side, 1 per direction, IP 65			
Dimensions (W x H)	600 x 600 mm, fully illuminated			
LED Colour	White, controllable brightness			
Power	12 VDC, 21.5 W max per sign			
Weight	7.5 kg per sign / 2 signs on one pole			
Compliance	EN 12899-1:2007/AC:2003			
Additional Information				
AC Input Voltage	230 V AC			
Frequency range	50 Hz			
Power consumption	Theoretical max 120 W per side, 240 W total; Average 25 W per side, 50 W total			Peak 500W per side, 1000W total
Total weight	30 kg on one pole			35 kg on one pole
Ambient conditions	Operating temperature –20° C...+50° C; < 95% relative humidity non-condensing			
LED Warning Lights				
Amount of lights	8 in total, 4 per pole, 2 per direction, IP67			
Power	12 VDC, 4.2 W rated per light			
Flashing frequency	60 times per minute			
LED Colour	Amber, controllable brightness			
Compliance	EN 12352			
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. Data processing inside the device			
Data	Accessible through Bercman Management Console or via API Count of pedestrian crossings, both ways. Foul crossings, both ways.			
Installation / Refer to the installation guide for more details				
Installation heights	Electronics cabinet - 3.5-4 m; Crosswalk signs - 2.6-3.2 m; LED warning lights - 0.8-1 m and 1.5-2 m			
Pole prerequisites	Minimum 76 mm diameter; Minimum 4 m height			
Vehicle Detection				
Radar	-	1 in total; 77 GHz; up to 175 m max detection range, up to 6 lanes, up to 256 simultaneously detected objects, IP67		
Classification and Data	-	5 vehicle classes - Motorbike/Bicycle, Short vehicle, Medium vehicle, Long vehicle, Extra long vehicle		

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Additional information

Can the system operate as part of a multi-sensor smart-city environment (e.g., combined with CCTV/AI, air-quality sensors, etc.)?
• Bercman Smart Pedestrian Crosswalks have additional 4 AUX (12V PWM outputs on PCB) and 2 switch (up to 230V(AC/DC) 1A controllable switches). Also we provide 8 raw GPIO pins for additional inputs / outputs. Also 12V, 5V and 3.3V is present on board

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