

INNOVATING A SAFER WORLD

Improving
Navigation
and Crossings,
Campbell
Company's
**ultramodern
APS technology**
delivers
**safety,
simplicity,
reliability
and
cost effectiveness.**



- Complete APS solution
- Simple & flexible configuration
- No software to purchase
- Convert Pre-timed Intersection into fully actuated
- Independent station (4 wire)
- Ped count/ Call data



Pedestrians are finding it more challenging to cross safely at signalized intersections. The Guardian provides important cues to assist all pedestrians to cross the intersection safely by providing audible, tactile, and visual indications at the crosswalk. A locator tone tells a pedestrian that the crossing is equipped with APS and where it can be found. The acknowledgement tone and visual LED indication accompany a pedestrian call. An extended press provides specific intersection information and access to additional functions. The walk tone or message is accompanied by a vibro-tactile indication during the visual walk display. Optional clearance phase indications may provide additional information to the pedestrian where appropriate. Includes Ambient Gain Control (AGC).

KEY BENEFITS & FEATURES

- Independent Locations
- USB Interface
- Ped Count / Call data
- Data Collection
- 4-wire Interface
- Simple Menu Utility
- 1:1 Ped Display to AGPS
- Night Mode Volume
- Configuration Templates
- NEMA TS 2 Certified
- No devices in cabinet
- Sound Directionality
- Event Tracking Log
- Meets MUTCD Guidelines
- Simple & easy install
- Station Angle Adjust

DESIGNED FOR THE AGENCY

- Designed for flexibility and ease of use.
- Each station can be configured at the factory or in the field. Software with GUI interfaces guide technicians through programming and configurations with "roll-over" help menus.
- Night mode volume controls with Quiet Signals Technology. Accommodate residential and evening business.
- Agencies can identify specific parameters for residential, retail, and industrial areas and save them as a configuration templates.
- Campbell's Simple Field Programmer (SFP) hand held configurator allows one button press configuration.
- Designed to also work properly with:
 - RRFBs, Solar Mid-Block crossings, Passive pedestrian detectors, Non-pedestrian actuated downtown core areas.

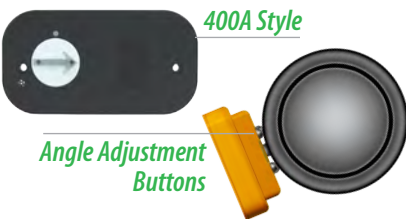
| PARAMETER | |
|---|---|
| BS Size | 5 x 13.75 x 1.75" |
| BS Weight | 7.0 lbs |
| 400 | 5 X 9" Rectangle Insert |
| Power (rest) | 1/3 watt @ 12 VDC |
| Current (rest) | 25 mA @ 12 VDC |
| Max Power | 8.4 W |
| Switch life | 100 x 10 ⁶ |
| Operational force | < 3lbf |
| Operating Temp | -40C to +85C |
| Max Volume | 100dB @ 1m |
| AGC Range | Adjustable 0 – 5dB over ambient |
| Audio Output | Default plus 4 options |
| LED | 3000 mcd, 160 degree viewing angle |
| Volume control | Fully adjustable, independent channels |
| Reporting | Pedestrian Usage, Event Logging, System Evaluation |
| Synchronicity | Beaconing, Group Walk |
| Night Mode | Volume, Recall, or complete configuration. |
| Selectable Options (options selected via lap top USB connection via a menu drive utility) | EP APS, Vib Pulse Call, Recall, Beaconing, Group Walk, Walk time out, Locator Tempo, EP Time, Vib Intensity |
| Sign Sizes | 5 X 7.75", 5 X 9", 9 X 12", 9 X 15" |
| Warranty | 3 year |
| TEST TYPE | COMPLIANCE |
| Functionality | MUTCD 4E, TAC |
| Transient Voltage Protection Mechanical Shock and Vibration | NEMA TS2 |

INSTALLATION

Ready to install, out of the box, a four conductor cable connects to the Signal Power Interface (SPI) in the pedestrian signal head. Aesthetically pleasing extension brackets and mounting hardware are available allowing stations to be mounted within accessibility guidelines.

| CONFIGURATION | TYPE |
|-------------------|-----------------|
| Interface | Windows Utility |
| Audio File Update | USB |
| Data Format | CSV |
| Firmware Upgrade | USB |

| PARAMETER (SPI) | RATING |
|-----------------|------------------------|
| Input voltage | 85 -135 VAC 220 VAC |
| Output voltage | 12V DC |
| Connection | 4 wire |
| Dimension | 2.75" x 3.5" x 1.875" |



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 Central Office: 1-800-387-4555
 Western Office: 604-502-9680

