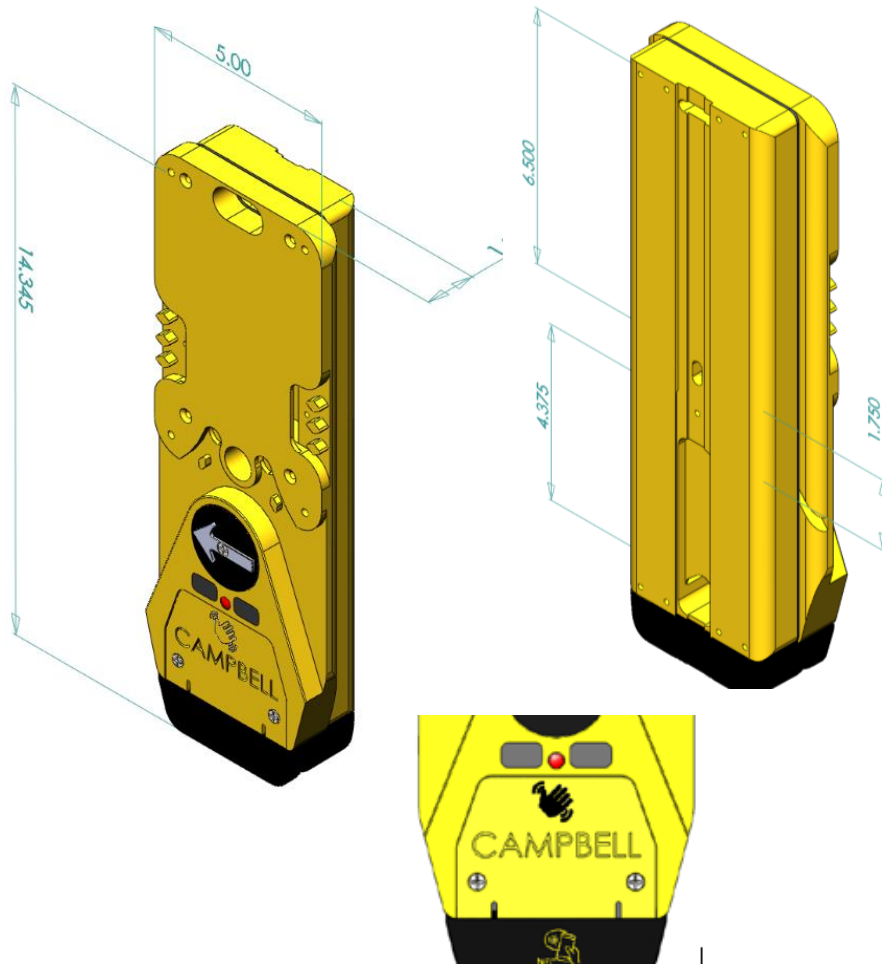




Guardian™ Independent APS



Guardian™ with Wave™ and Bluetooth® Bump™ options

Guardian is an independent 4-Wire Accessible Pedestrian Signal. A four-conductor cable connects the Signal Power Interface (SPI) in the pedestrian signal head to the Guardian station. The housing is machined from a solid billet of 6061 T6 AL and is vandal resistant. The push button is ADA compliant and is designed to withstand extreme conditions. The Guardian provides information and audible indications required by the MUTCD and TAC making the intersection accessible for all pedestrians.

Bump and **Wave** options allow pedestrians a non-contact actuation solution.

Guardian Wave™ is equipped with a non-contact actuation sensor. Pedestrians place a call by waving a hand in front of the Wave Icon near the physical actuator. No exclusivity or proprietary apps, the solution is available to 100% of all pedestrians.

Guardian Bluetooth® Bump™ add-on option utilizes the Bluetooth module for non-contact actuation functionality. The Bump allows a pedestrian to make a call by placing their NFC enabled smart phone near the Guardian Bluetooth module. Bump™ utilizes the PedCross app which is an agency controlled supplement.

Key Features

- PedConnex™ and PedConnex™ Bluetooth are downloadable software applications for USB and Bluetooth® interface allowing configuration and customization. (Windows, Android, iOS)
- Quiet Signal Technology™ includes firmware settings for time of day, day of week functionality, and port baffles that provide sound directionality where and when you want it.
- Out of the box and on to the pole, pre-programmed and customized for true plug and play installation at the intersection
- Configuration profiles can be saved and downloaded for quick button set-up and recovery in knockdown situations
- Custom audio files with specific volume settings and time stamps for residential, industrial, and downtown corridors can be configured and saved for future deployments
- Fail safe default reverts to standard push button operation in flash
- Guardian provides intersection phase sound synchronization
- A variety of display sizes and legends with security hardware provide a customized, secured pedestrian station.
- Low power consumption allows Guardian to work properly with RRFBs and Solar Mid-Block crossings
- Hardware options allow Guardian to be extended and re-oriented to make difficult installations meet MUTCD, AASHTO, and TAC guidelines.



Operating Specifications

Parameter	Rating
Operating Temperature Range	-34°C to +74°C -30 °F to +165°F
Operating Force	3.0 Maximum
MTFB	1,200,000 hrs. (136 years)
Switch Operating Life	Greater than 100 Million Operations
Maximum Volume	100 dB @ 1 meter

Design Compliance

Test Type	Compliance
Functionality	MUTCD 2009 - 4 E
Temperature and Humidity	NEMA TS2
Transient Voltage Protection	NEMA TS2
Transient Suppression	IEC 61000-4-4, IEC 61000-4-5
Electronic Noise	FCC Title 47, Part 15 Class B
Mechanical Shock and Vibration	NEMA TS2
Guardian PBS enclosure	NEMA 250 – Type 4X
Electrical Reliability	NEMA TS4
Bluetooth® Specification	Bluetooth® SIG member

All certifications performed by certified independent testing laboratories

Station Size	5" x 7.75"	9" x 12"	9" x 15"
PN#	501-0811	501-0811/511	501-0811/512

Guardian Wave	501-0821
Guardian Bluetooth® Module	501-0650

Please specify Part Number and following attributes:

1. Color	2. Screw Type	3. Arrow type
Textured Black	Standard Phillips	Field Selectable (FS)
Federal Yellow	Pinned Torx (T)	Double Arrow DA
Gloss Black	Allen Head (Allen)	No Arrow (NA)
Unpainted/ Natural		
Other (specify)*		

4. Sign Legend



Sign Films and More

- Engineering Grade
- Diamond Grade
- Decals EG & DG
- Braille 2

Notes:

1. Applicable sections only of referenced standards
2. All specifications are subject to change without notice
3. All Specification are Typical unless otherwise specified