PedSafety
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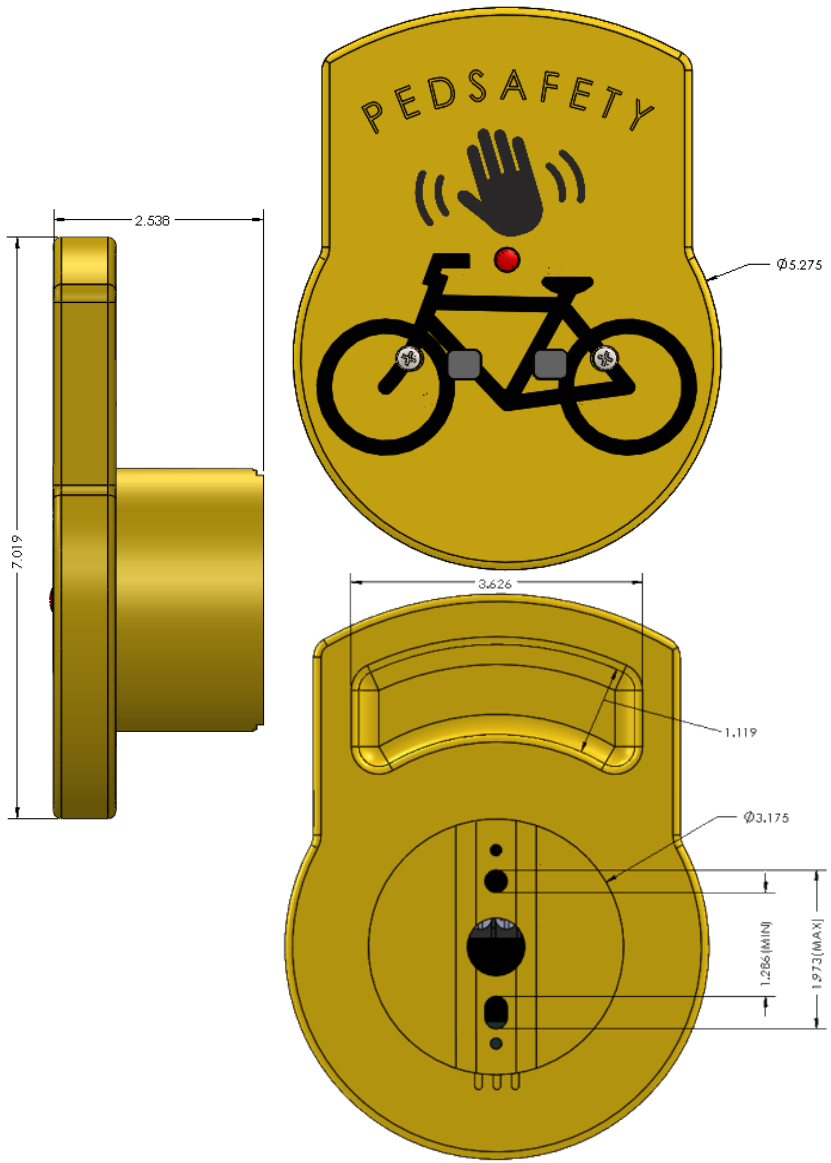
nxtCycle Wave



Created specifically for cyclists, the **nxtCycle Wave** is a touchless cyclist push button digitally controlled using an active infrared sensor that is extremely robust and works in all weather conditions including rain, hail, and snow. Made from solid-stock aluminum, the button is both vandal and impact-resistant and placed directly in the bike lanes. The **nxtCycle Wave** was designed so the top of the station doubles as a handle grip, allowing the cyclists to steady themselves and balance without having to dismount their bikes while waiting for the crossing indication.

With a wave of the hand 1-6" from the sensor, a momentary LED indication and audible tone (dee-dah) are activated with the pedestrian call. The nxtCycle Wave can be purchased in momentary or latching LED modes (requires **PBIC** or **PBI-L** push button interface).

The button cup allows for simple installation across a wide range of pole sizes and the pole relief channel ensures a secure and snug fit while still being accessible.

Specifications:
Idle Current: 125µA (microamps)
Clock Calibration Current**:** ~3mA (milliamps)
Operating Voltage DC: 12-36 VDC
Operating Voltage AC 12-24 VAC

Feedback:
Visual: LED Super Bright Red (Luminous Intensity: 5000 mcd)
Audible: Dee 3900 Hz – Dah 3600 Hz

LED Operating Modes:
Momentary: LED on for 0.025 seconds to correspond with audible dee-dah beep and circuit closure.
Latching: LED activates after call is placed through non-walk phases and extinguishes at the beginning of the walk phase.

Isolator Card Requirement:
To ensure consistent performance of the Wave sensor over time, the **nxtCycle Wave** must periodically calibrate its internal timer. Although its idle current is very low, the current draw during timer calibration is high enough to place a call on most cabinet FT lines. To ensure operation free from false calls, we recommend the **nxtCycle Wave** to be paired with a **PBIC** or **PBI-L** push button interface.

Operating Specifications

Parameter	Rating
Operating Temperature Range	-34°C to +74°C -30 °F to +165°F
Operating Life	Greater than 100 million operations
Maximum Volume	70 dB @ 1 meter

Design Compliance

Test Type	Compliance
Functionality	MUTCD 2009 - 4E
Transient Voltage Protection	IEC 61000-4-4, IEC 61000-4-5
Electrical Reliability	FCC Title 15 Subpart B

**All certifications performed by certified independent testing laboratories.*

Part Number:

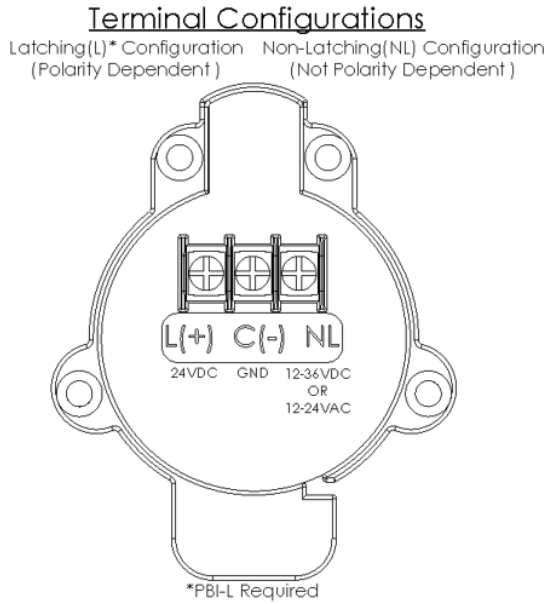
nxtCycle Wave	502-0102

Interfaces: Required for latching or non-latching

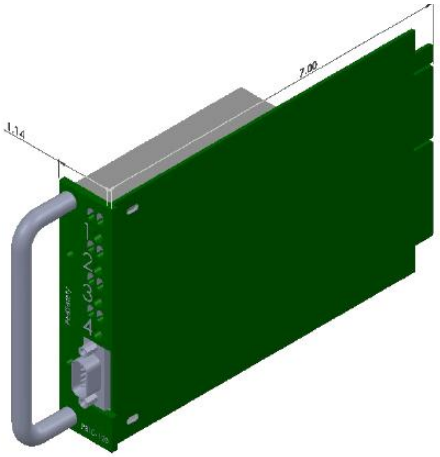
PBI-L (wall mount)	501-0010
PBIC-24 (card rack mount)	501-0005C
PBIC-120 (card rack mount)	501-0014

Please specify the following attributes:

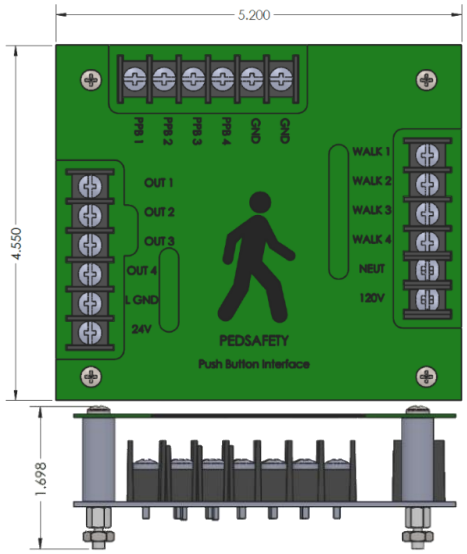
1. Color	2. Screw Type
Textured Black	Standard Phillips
Federal Yellow	Pinned Torx (T)
Green	
Unpainted/Natural	



Terminal Blocks



PBIC Isolator Card



PBI-L Isolator

Notes:

- Applicable sections only of referenced standards
- All specifications are subject to change without notice
- All specifications are typical unless otherwise specified