

Polara is the trusted industry leader in Accessible Pedestrian Signals.







### iNS **Next Generation** of iNavigator

**SIGNIFICANT** upgrade to iNavigator that is backwards compatible with existing iN2 and iN3 installations.

#### **PEDAPP®**

Agency controlled pedestrian smartphone ADA intersection crossing supplement.



Call your dealer for more information or visit--POLARA.COM



### Connectivity | Accessibility | Durability





## iNS Now One Button Choose Your Configuration



- NEW Single unit works with both iN2 (2-wire) and iN3 (3-wire) installations (Ped Head or Central Comm System)
- NEW Both systems can now Wireless Sync each other via Bluetooth to extend call range
- NEW Bluetooth<sup>®</sup> 5 More speed, range and app capabilities
- NEW Modular speaker design with front and rear sound
- Same iNavigator firmware and backwards compatible



iNS

### CHOOSE 2- OR 3-WIRE SYSTEM

#### 2-Wire Central Communication Control Unit:

- NEW Improved transient protection
- NEW Separate cables Only buy what you need
- NEW TS1, TS2 & SDLC, TS2 Full BIU, 300 series cabinet (170/2070) card (iCCU-C2)

#### **3-Wire Ped Head Control Unit:**

• 3 wires to control unit in Ped Head (power, ground, data)



### WIRELESS PROGRAMMING

- Industry-leading wireless accessibility and control (iOS<sup>®</sup>, Android<sup>™</sup>, Windows PC)
- Easily load/extract voice messages to/from PBS
- Free customized voice recording/online database for easy email/share/upload to buttons
- Quiet Time Control (modify sound via time of day in 3 steps)
- Save, share, and upload configuration settings/firmware
- · Button diagnostics, firmware upgrades and more

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APS Connectivity, Accessibility and Confidence with Independent Lab Testing: NEMA TS2 | Temperature | Humidity | Mechanical-Shock-Vibration | Transient Surge



Polara is the trusted industry leader in touchless Accessible Pedestrian Signals.



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PEDAPP

## iNS APS with iDetect

- Touchless actuation
- Inconspicuous radar detection
- Vandal resistant
- Detects movement typically within 1-4"

### iNS also Touchless via PEDAPP®

- Allows visually impaired and all pedestrians to actuate button from phone via Bluetooth<sup>®</sup> wireless technology
- Can provide audible intersection crossing information location, directionality, Walk, Don't Walk and ped clearance
- Works with existing text-to-speech functionality in phones

Call your dealer for more information or visit--

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# POLARA

### iNS2: "iNS" iNavigator 2-Wire Push Button Station

The "iNS" iNavigator 2-Wire Push Button Station (iNS2 PBS) is the pedestrian interface to the iNavigator Accessible Pedestrian System. A system consists of a Control Unit (PN iCCU-S2, iCCU-C2, iCCU-S, or iCCU-C) and a Push Button Station. The iNS2 PBS is an MUTCD compliant PBS and provides valuable information and cues via both a vibrating arrow button and audible sounds, making the intersection accessible for all pedestrians. All sounds emanate from the front and back of the unit. A sunlight-visible red LED latches "ON" along with a tactile feedback "bounce" to confirm the button has been pushed. The vandal-resistant design of the iNS2 PBS includes the body, which houses the ADA compliant push button (shown), a faceplate (5X7 sign shown), and mounting hardware. By interfacing with the Central Control Unit (CCU) that installs in the Traffic Cabinet, the iNS2 PBS can provide the following standard features:

- Operates over a single pair of wires
- All PBS wired in parallel, individually assignable to any phase
- 16 buttons can operate on a single iCCU (dependent on power requirements and wire runs)
- All sounds are synchronized
- 4 Locate Tone selectable options
- 13 Walk Sound selectable options, 3 of them custom options
- 7 Clearance Sound selectable options
- Walk, Clearance, and Don't Walk sounds automatically adjust to ambient
- Separate ambient response settings for Locate Tone (for quiet ambient conditions)
- Most sounds have independent Min/Max settable limits
- Button vibrates during Walk
- Button push confirmed by latching LED, tactile bounce, and audible "wait" sound
- Extended button push can boost volume for next Walk and Clearance
- Direction of travel message with extended button push, capable
- Extended Push Priority: mutes all but selected crosswalk, capable
- Extended Push activation settings: 0-6 second range, 0.5 second increments
- Beaconing and Ping Pong features available
- Select audio messages, change settings, and perform firmware updates wirelessly using iOS (9.0+) or Android (5.0+) devices, or a Windows PC with Polara's Bluetooth Dongle (PN iN-DGL, purchased separately)
- Built in health/event logging feature, up to 1000 events
- False walk detection: four independent checks
- External speaker option at time of order
- External button input for bike lanes, horses, etc.
- Warranty: 3 year limited

An iNS2 PBS can operate as an iNS3 (Ped-Head Based System). It comes with a 3-position terminal block to connect to a Ped-Head Control Unit. See iNS3 Quick Start Guide for more information.

For optimum functionality, Polara recommends a dedicated pair of wires be routed to each PBS. Using IMSA 50-2 Cable is an ideal choice. The ground shield does not need to be connected.

Dimensions are in inches. iNS25BN0-Y unit shown.

6.0

5.1

14.0

2.6



### iDS: "iNS" iNavigator 2-Wire Push Button Station with iDetect Option & PedApp<sup>®</sup>

The "iNS" iNavigator 2-Wire Push Button Station (iNS2 PBS) is the pedestrian interface to the iNavigator Accessible Pedestrian System. A system consists of a Control Unit (PN iCCU-S2, iCCU-C2, iCCU-S, or iCCU-C) and iNS Push Button Stations. The iNS PBS is MUTCD compliant and provides valuable information and cues via both a vibrating arrow button and audible sounds, making the intersection accessible for all pedestrians. All sounds emanate from the front and back of the unit. A sunlight-visible red LED latches "ON" along with a tactile feedback "bounce" to confirm the button has been pushed. The vandal-resistant design of the iNS PBS includes the body, which houses the ADA compliant push button (shown), a faceplate (5X7 sign shown), and mounting hardware.

### **iDS = iDetect Touchless Actuation Option**

- Detects movement typically within 1-4 inches
- Inconspicuous Radar Detection Vandal Resistant

### **PedApp® - Smartphone App - Wireless Bluetooth® 5**

- For Visually impaired & All Pedestrians, allows button actuation from phone via Bluetooth wireless technology
- Can provide intersection crossing information location, directionality
- Provides same information as visual indication (Don't Walk, Walk, Ped Clearance, and audible countdown if programmed)
- Agency can control Ped App usage at intersections
- Works with "Text to speech" in Smartphones
- Recommend agencies to use/implement at pedestrian requested APS sites



Dimensions are in inches

See iNS2 Cut Sheet for detailed list of features

# POLARA

| Operating Specifications |   |
|--------------------------|---|
| Parameter                | Rating  |
| Operating Temp. Range    | -34°C to +74°C (-30°F to +165°F)†                     |
| Storage Temp. Range      | -45°C to +85°C (-50°F to +185°F)                      |
| Operating Force          | 3.0 lbs max, option of 3 adjustable programmed forces |
| Switch Operating Life    | Greater than 20 million operations                    |
| Max. Volume              | 100 dB @ 1 meter                                      |

| Design Compliance              |                  |  |
|--------------------------------|------------------|--|
| Functionality Test Type        | Compliance       |  |
| Temperature and Humidity       | MUTCD 2009-4E    |  |
| Transient Voltage Protection   | NEMA TS2         |  |
| Transient Suppression          | NEMA TS2         |  |
| Mechanical Shock and Vibration | NEMA TS2         |  |
| iNS3 PBS Enclosure             | NEMA 250 Type 4X |  |
| Electrical Reliability         | NEMA TS2         |  |

Notes:

- 1. Lab tested to applicable sections of referenced standards
- 2. All specifications are subject to change without notice
- 3. All specifications are typical unless otherwise specified

<sup>+</sup> iDetect touchless actuation will work as specified in the range of -20°C to -60°C (-4°F to +140°F). Detection could fluctuate and be reduced/less responsive outside of the specified range. All normal PBS functions will work through the extended NEMA temperature ranges. iDetect is an additional feature/supplement to the PBS.

