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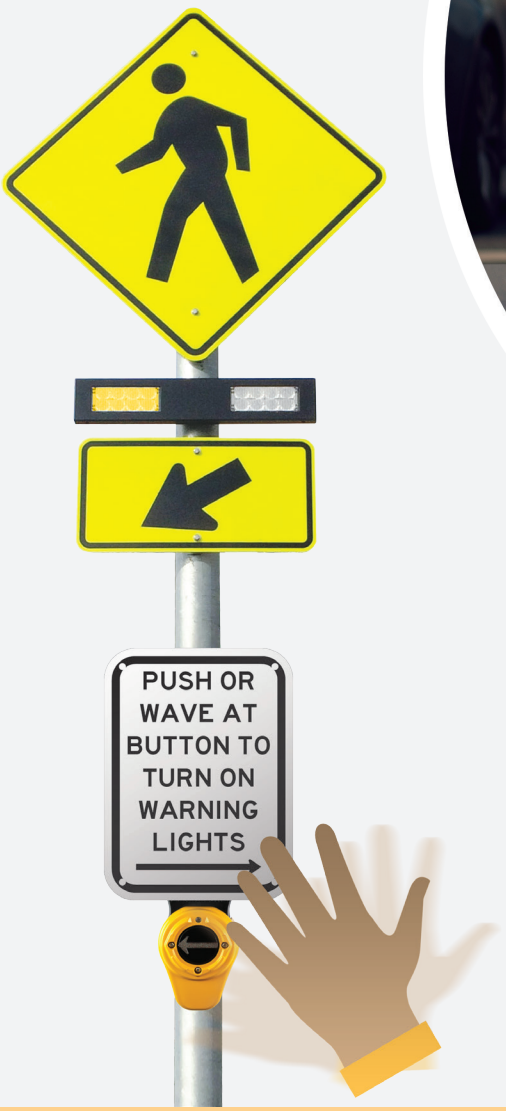
Leader in APS Solutions

# Connectivity | Accessibility | Durability

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




*RRFB Accessibility with Touchless Actuation*

## iNX

### Now Available with iDetect

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

## Wireless Programming

Industry-leading Bluetooth® wireless accessibility and control for iOS® and Android™ devices.

*Call your dealer for more information or visit--*

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# Connectivity | Accessibility | Durability

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iNX

## iNX

### Next Generation of Crosswalk Accessibility

Designed for Rectangular Rapid Flashing Beacons (RRFB) & other approved Flashing Pedestrian Crosswalk Systems.

## Wireless Programming

Industry-leading Bluetooth® wireless accessibility and control for iOS® and Android™ devices.

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# iNX

# Fully Integrated System in One Button

## iNX ONE BUTTON SYSTEM

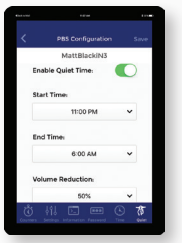
- NEW No control boards needed — Just connect cables
- NEW Low power — Works in battery/solar applications
- NEW Button-to-button Bluetooth sync — No radios needed
- NEW Modular speaker design with front and rear sound
- NEW Bluetooth® 5 — More speed, range and app capabilities

*iNX shown on RRFB*

## FHWA & MUTCD COMPLIANT

**March 20, 2018 FHWA/MUTCD Interim Approval 21**
**Accessible Pedestrian Features:**

- Locator tone
- No vibrotactile or percussion indications
- If speech message used, “Yellow Lights are Flashing” is played twice




## WIRELESS PROGRAMMING

- Industry-leading wireless accessibility and control (iOS, Android)
- Full wireless programming — Volumes, messages, time of day

## PEDESTRIAN APP ENABLED

- NEW Works with PEDAPP® — Polara’s exclusive pedestrian smartphone application
- NEW Agency controlled pedestrian smartphone ADA intersection crossing supplement

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TRC ISO 9001:2015 CERTIFIED

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

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Polara Enterprises | 1497 CR 2178, Greenville, TX 75402 | 903-366-0300 | polara.com

# iNX: Mid-Block Crossing Push Button Station
# iDX: iNX with iDetect Touchless Actuation Option

The iNX push button station is designed for use at a pedestrian crosswalk with in-pavement or overhead flashing yellow lights. The system consists of a 9”x12” instructional sign, a push button with directional arrow (bidirectional and blank buttons also available) for activating the flashing lights, a voice message, and one yellow LED above the push button that flashes when the street warning lights are flashing.

The iNX uses the same rugged housing as Polara’s “iNS” iNavigator. In addition to the push button, the iNX contains a speaker, a 10-watt RMS audio amplifier, a noise monitoring microphone for auto volume control, and LED indication.

The iNX operates off of the warning light system control unit via six wire connections (see page 2). The iNX has the same Bluetooth configuration interface as the “iNS” iNavigator, which is used to select audio messages, change settings, and download firmware updates. The Bluetooth can also communicate with other buttons, eliminating the need for separate radios to perform this function.

**iNX/iDX is not compatible with XAVCU controllers.**

**iDX Features:**

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

The unit is supplied with mounting hardware and installation instructions.

**iDetect Option & Sign**
iDX9SN0-Y

## Ordering Options

**iNX 9 W N 0 - Y - NA**

**Product Family**
iNX - **Standard**
iDX - With iDetect (Touchless Actuation)

**Size of Front Plate Adapter**
5 - 5" x 7"
9 - 9" x 12" **(Standard)**

**Faceplate**

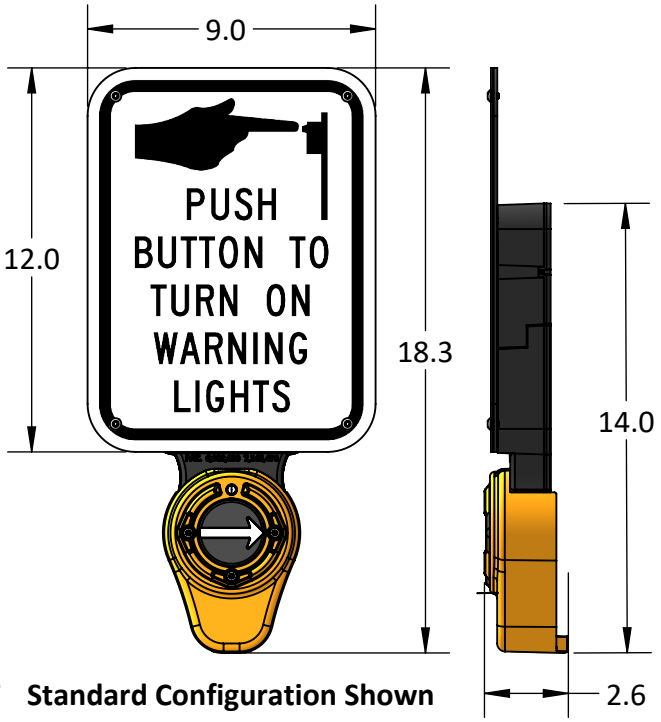
| MUTCD Compliant | Non-MUTCD Compliant |
|---|---|
| W - 9x12 R10-25 **(Standard)** | W - 5x7 Based on R10-25 |
| | O - No Faceplate |
| | S - 9X12 Touchless |

**Braille**
N - No braille on Faceplate **(Standard)**
B - Braille on Faceplate

**Audio Message Option**
0 - **Standard** Messages
1 - Custom Messages

**Button Cover Color**
Back plate is always black.
B - Black
G - Green
Y - Yellow **(Standard)**

**Additional Button Options**
NA - No Arrow
BD - Bi-Directional Arrow




**Standard Configuration Shown**
iNX9WN0-Y

## Function

Push button station (PBS) for use on crosswalks with flashing yellow lights. Connects to RRFB to enable triggering of crosswalk lights and can provide a locate tone and a voice message. Voice message can be set to play 1/2/3 times, or for the entire time the lights are flashing. Factory Default Setting is to play 2 times per FHWA.

## Features

- Instructional 9”x12” retro-reflective sign with tamper-resistant mounting screws
- One yellow LED that flashes when warning lights are flashing
- ADA-compliant push button with directional arrow, field adjustable to point left, right, up, or down
- 10-watt audio amplifier
- Weather resistant speaker
- Volume and other settings set using the free Polara service app, connected over Bluetooth
- Standard English Message: "Yellow lights are flashing" (Default 2X per FHWA)

## Electrical Properties

| Power Requirements | |
|---|---|
| DC In | 10-24 VDC |
| Button | 7-32 VDC |
| Lights In | 7-32 VDC |
| Idle Current Draw | ~15mA @ 12 VDC<br>(Locate Tone With Default Settings) |
| Peak Current Draw<br>(15 VDC Input Power) | ~500mA with Voice Message at maximum |

Notes:

1. **DO NOT APPLY AC VOLTAGE TO THIS SYSTEM!**
2. Designed to comply with applicable sections of referenced standards
3. All specifications are subject to change without notice
4. All specifications are typical unless otherwise specified

**6-Wire System Termination View**

2-Wire inputs for LIGHTS (+/-)*
2-Wire inputs for BUTTON (+/-)*
Power (PWR)
Ground (GND)
*Both LIGHTS and BUTTON accept either polarity.

## Mechanical Properties

| Physical | |
|---|---|
| Enclosure Type | Plastic sealed housing, powdercoated cast aluminum cover and backplate |
| Installation | 3/4" or smaller banding or 2 tapped 1/4-20 holes on 6" centers; 1/2" or larger hole for wire access |
| **Dimensions** | |
| Width | 9" (with 9x12" sign) / 5.1 (without sign) |
| Length | 18.2" (with 9x12" sign) / 14" (without sign) |
| Maximum Height | 2.6" |

| 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 |
| Switch Operating Life | Greater than 20 million operations |
| Max. Volume | 100 dB @ 1 meter |

| Design Compliance | |
|---|---|
| **Test Type** | **Compliance** |
| Functionality | MUTCD 2009-4E |
| Temperature and Humidity | NEMA TS2 |
| Mechanical Shock and Vibration | NEMA TS2 |
| iNX Enclosure | NEMA 250 Type 4X |

† 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.