

## iNX: Mid-Block Crossing Push Button Station

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.

The unit is supplied with mounting hardware and installation instructions.

iNX is not compatible with XAVCU controllers.

### Ordering Options

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

#### Additional Button Options

NA - No Arrow  
BD - Bi-Directional Arrow

#### Button Cover Color

Back plate is always black.  
B - Black  
G - Green  
Y - Yellow (Standard) Typically "Y" for Yellow.

#### Audio Message Option

0 - Standard Messages  
1 - Custom Messages

#### Braille

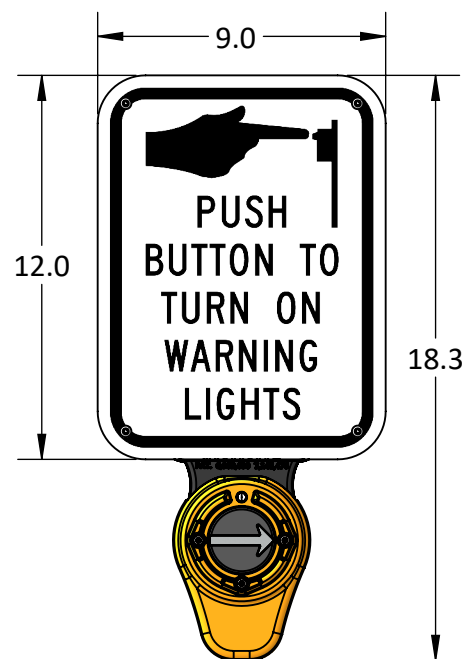
N - No braille on faceplate (Standard)  
B - Braille on faceplate

#### Faceplate

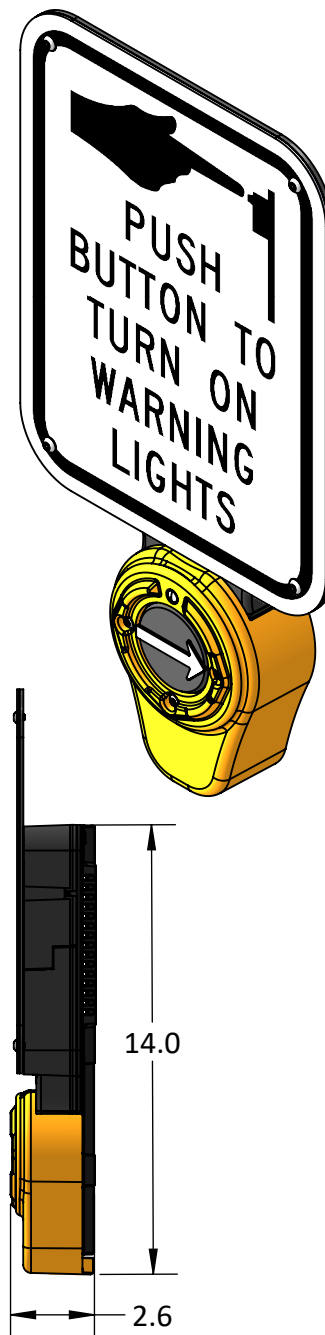
MUTCD Compliant  
W - 9x12 R10-25 (Standard)  
Non-MUTCD Compliant  
W - 5x7 Based on R10-25  
O - No Faceplate

#### Size of Front Plate Adapter

5 - 5" x 7"  
9 - 9" x 12" (Standard)



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)
- Standard Spanish Message: "Las luces amarillas estan relampaqueando"

## Electrical Properties

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

## 6 Wire System Termination View



2-Wire inputs for LIGHTS (+/-)\*  
 2-Wire inputs for BUTTON (+/-)\*  
 Power (PWR)  
 Ground (GND)  
**\*Note: 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

### Notes:

1. Designed to comply with applicable sections of referenced standards
2. All specifications are subject to change without notice
3. All specifications are typical unless otherwise specified