iDS3 / iNS3

PED-HEAD CONTROLLED ACCESSIBLE PEDESTRIAN SIGNAL (APS)

Transportation networks should be safe and accessible to everyone. With Polara's industry-leading APS, they can be.

- **Communicates information about the signal phases at intersections in non-visual formats for pedestrians with vision and hearing loss**
- **Touchless activation with accurate, customizable radar (iDS)**
- **Ultra-durable Hall-effect button rated to 20 million+ operations**
- **Easy-to-install stand-alone system with control unit in each ped head**
- **Program wirelessly from your phone, without costly devices or software**

HYGIENIC TOUCHLESS ACTIVATION

Accurate and inconspicuous, our iDS (iDetect) model provides contactless activation with an adjustable detection range of 1-20 inches. Unlike other detection methods, Polara's radar unit is vandal-resistant and unimpeded by fog, ice, dust, paint, and more.

DURABLE DESIGN & TECHNOLOGY

With a rugged cast aluminum cover and back plate, wide temperature tolerance, and abuse-resistant low profile, the iDS/iNS shrugs off weather and vandalism. With no mechanical switches to fail, the ultra-reliable Hall-effect button has been tested to 20 million+ operations.

SIMPLE WIRELESS PROGRAMMING

The iDS/iNS is easily programmed using our industry-leading Field Service App for iOS® & Android® – no expensive software or proprietary devices required. The app not only allows technicians to configure system settings and sounds, but to access actionable data on walk intervals, activations, and more.

ENERGY EFFICIENT & COST-EFFECTIVE

Low power requirements make the iDS/iNS ideal for solar- and battery-powered installations. Combined with secure button-to-button Bluetooth® sync, this can eliminate the need for costly trenching and external radios.

PEDAPP PEDESTRIAN MOBILITY APP

PedApp allows users to interact with iDS/iNS push buttons from their smartphone. Designed for pedestrians with vision loss but usable by anyone, the app helps users identify and actuate nearby signals, as well as listen to audible messages through their phone.

TAKE THE NEXT STEP!
sales@polaraent.com | 903.366.0300

iNS FEATURES - ALL MODELS

• 4 Locate Tone selectable options
• 13 Walk Sound selectable options, including 3 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
• Independently set maximum and minimum volume on most sounds
• Button push confirmed by latching LED, tactile bounce, and audible "wait"
• Button vibrates during Walk
• Extended Push: optional volume boost for next Walk and Clearance
• Extended Push: optional direction of travel message
• Extended Push: activation adjustable 0-6 seconds, 0.5 second increments
• PedApp®: free mobility app allows touch-free activation via Bluetooth™, provides intersection information. Available for iOS and Android devices
• Wireless programming, custom audio, and firmware updates with the free Polara Field Service App, available for iOS and Android devices
• Built in health/event logging feature, up to 1000 events
• External speaker option at time of order
• Warranty: 3 year limited

iDETECT FEATURES

• iDetect: inconspicuous radar switch, detects movement within 20" Default setting is 1"-4"; adjustable
• iDetect: hygienic and accessible activation option
• iDetect: vandal resistant; unimpeded by fog, ice, paint, paper, smoke
• iDetect: wave time sensitivity adjustment - 0ms, 50ms, 250ms, 500ms

iNS3 / 3-WIRE FEATURES

• 3 wires (Data, PWR, GND) connect iNS3 to iPHCU3S in the signal head. Two wires to traffic cabinet may be used to place calls at actuated intersections.
• Stand-alone system - nothing in cabinet.
• Wireless ped call actuation available.
• Wireless button-to-button sync via Bluetooth for sound synchronization.
• Beaconing and Ping Pong features available
• Pilot Light Recall: turns on pilot light and keeps it on during Clearance & Don't Walk Cycles
• External button input for bike lanes, horses, etc.

Note: An iNS2 button will automatically function as an iNS3 button when connected to an iPHCU3S. iNS3 will not operate as a 2-wire unit. See iNS2 product page for 2-wire features.

iNS/iDS SPECIFICATIONS

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

Notes: Lab tested to applicable sections of referenced standards. All specifications are subject to change without notice. All specifications are typical unless otherwise specified.

†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

▲ iPHCU3S ped head control unit

iPHCU3S SPECIFICATIONS

Operating Specifications

Parameter	Rating
Ped Walk/ Don't Walk Inputs:	120VAC ±5%
ABS Power Output:	Each iPHCU3S can power a single iNS APS button
Environmental:	Operating: -34°C (-30°F) to +74°C (+165°F) Storage: -45°C (-50°F) to +85°C (+185°F)
Warranty:	3 years

Design Compliance

Functionality Test Type	Compliance
Temperature and Humidity	MUTCD 2009-4E
Transient Voltage Protection	NEMA TS2
Transient Suppression	NEMA TS2v
Mechanical Shock and Vibration	NEMA TS2
iNS3 PBS Enclosure	NEMA 250 Type 4X
Electrical Reliability	NEMA TS2