POLARA

2-WIRE APS

iDS2 / iNS2

CABINET CONTROLLED ACCESSIBLE PEDESTRIAN SIGNAL (APS)

- Audible, vibrotactile, and visual pedestrian indications
- Touchless activation with customizable iDetect® radar (iDS)
- Hall-effect push button rated for 20+ million actuations
- Uses existing push button wiring
- SDLC cabinet connection for faster, safer installation
- Wireless setup from any iOS® or Android® device

TOUCHLESS ACTIVATION

The iDS with iDetect® radar provides accurate, contactless activation with an adjustable detection range from 1 to 20 inches. Unlike infrared sensors, radar is unaffected by fog, ice, dust, paint, or vandalism.

BUILT TO LAST

Built with a rugged cast aluminum housing and abuse-resistant design, the iDS/iNS performs reliably in harsh environments. Its solid-state Hall-effect button eliminates mechanical wear and is tested to more than 20 million actuations.

ENERGY EFFICIENT

Low power requirements make the iDS/iNS ideal for solar- and battery-powered installations. When paired with Polara's Wireless Ped System (WPS), secure button-to-button Bluetooth® synchronization can eliminate the need for trenching, conduit, or new button wiring.

PEDAPP PEDESTRIAN MOBILITY APP

PedApp lets pedestrians locate, activate, and interact with nearby iDS/iNS push buttons using their smartphone. Users can also hear audible messages directly through the app.

SIMPLE WIRELESS PROGRAMMING

Configure the iDS/iNS wirelessly with Polara's Field Service App for iOS® and Android®. Adjust settings, update sounds, and view activation and walk interval data without proprietary hardware or software.

ada COMPLIANT | meets MUTCD standards | BABA COMPLIANT Oct. 1, 2026 | PROWAG

TAKE THE NEXT STEP!

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Powered by Synapse ITS

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: hygenic and accessible activation option
- iDetect: vandal resistant; unimpeded by fog, ice, paint, paper, smoke
- iDetect: wave time sensitivity adjustment - 0ms, 50ms, 250ms, 500ms

iNS2 / 2-WIRE FEATURES

- Operates over a single pair of wires - uses existing button 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)
- Central & Remote Communication via Ethernet or Wireless (Wi-Fi & Bluetooth). SNMP (email alerts) & SNTP
- Preemption message broadcasting
- All sounds are synchronized
- Extended Push Priority: mutes all but selected crosswalk, capable
- False walk detection: four independent checks

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 iNS3 product page for 3-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

▲ *iCCU-S2*

▲ *iCCU-C2*

iCCU-S2 SPECIFICATIONS

Operating Specifications	
Parameter	**Rating**
Ped Walk/ Don't Walk Inputs:	Optically isolated 80-150 Volts AC/DC, 5 mA max.
Ped Call Outputs:	Optically isolated 36 Volts AC/DC peak 300 mA Solid State Fused Contact Closure
PBS Power Output:	Nominal 24 VDC, Short Circuit Protected Auto Recovering
General Purpose Inputs:	10-36 Volt AC/DC peak, 10 mA max, Optically Isolated
Environmental:	Operating: -34°C (-30°F) to +74°C (+165°F) LCD temperature range is limited to -20°C to +70°C Storage: -45°C (-50°F) to +85°C (+185°F)
Regulatory:	The iCCU-S2 uses a UL 62368-1 certified power supply, Certificate Number: UL-US-2135910-0
Warranty:	3 year limited

iCCU-C2 SPECIFICATIONS

Operating Specifications	
Parameter	**Rating**
Ped Walk/ Don't Walk Inputs:	0-24 VDC (active low)
Ped Call Outputs:	Optically isolated 36 Volts AC/DC peak 300 mA Solid State Fused Contact Closure
PBS Power Output:	Up to 16 buttons can be driven under default conditions.
Environmental:	Operating: -34 C (-30 F) to +74 C (+165 F) LCD temperature range is limited to -20 C to +70 C Storage: -45 C (-50 F) to +85 C (+185 F)
Warranty:	3 year limited

Notes: The iCCU-C2 is compatible with Cal-Trans TEES and 300 series cabinets with a standard C4 connection to the output file. Preemption messaging through the APS system is not available on this unit.

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

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