

# Industrial Push Button Wall Station and Key Switch Station



The Industrial Push Button (INDPB) and Key Switch (KSW) are single zone wall mounted controllers that provide local ON/OFF control over a lighting zone. Utilizing a standard single-gang form factor in a rugged stainless steel housing, both low voltage control solutions connect to the ENCELIUM® EXTEND Networked Light Management System (LMS) through either a GreenBus II® cable with standard 2-pin connectors for the Industrial Push Button or Sensor Interface Module (SIM) for the Key Switch Controller. Each wall switch can be set-up and modified through the Polaris 3D® software interface.

Both controllers are generally located at entry points to a zone or department and are used to “activate” or “de-activate” a lighting zone. On the Industrial Push Button controller the zone status is indicated by an LED display with white indicating ON and blue indicating OFF.

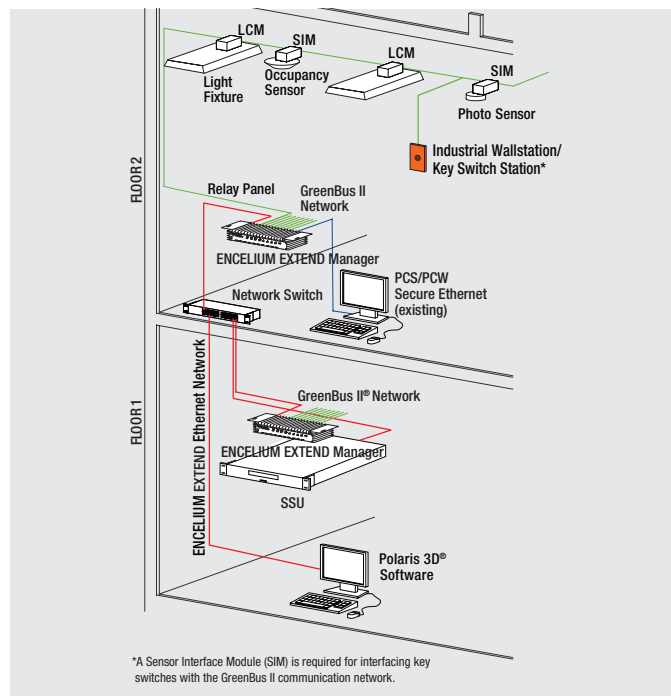
Where lighting zones are controlled by a time schedule (rather than by occupancy sensors), the Industrial Push Button also allows for manual override of the time schedule by simply “re-activating” the zone about to be shut down. During shut down mode, the Industrial Push Button will alternately flash blue and white LEDs to indicate to occupants that an override is necessary. The Key Switch Controller can be used as an emergency override with programmable responses.

OSRAM offers a special Damp-Rated Industrial Push Button for installations in interior locations subject to moderate degrees of moisture. To implement a damp-rated Key Switch solution users can use a damp-rated SIM. Examples of this type of environment may include basements, above-ground parking garages, barns, and cold-storage warehouses as well as partially protected locations under canopies, marquees, and roofed open porches.

## Key Features & Benefits

- The INDPB enables manual override of the time schedule by re-activating the desired zone.
- The KSW can be used as an emergency override with programmable responses.
- Damp Rated versions are available for:
  - parking garages
  - cold storage warehouses
  - storage unit facilities
  - exterior covered structures

## ENCELIUM® EXTEND Networked Light Management System Architecture



## System Architecture

This illustration shows how each component is easily integrated into the ENCELIUM EXTEND Networked Light Management System (LMS). GreenBus II is a two-wire communication topology for supplying data and power to the system. Each light fixture, sensor, and wall controller is daisy-chained back to the ENCELIUM EXTEND Manager using pre-terminated ‘click & go’ GreenBus II communication cabling. Managers typically control individual floors and are linked via an Ethernet Network. Internet or LAN connection allows floor plan based control software to be operated anywhere on the network. For reference, the component shown on this data sheet is highlighted.

## Specifications

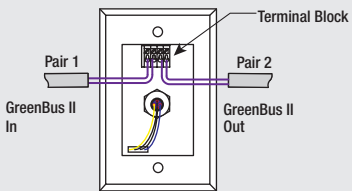
- Dimensions: 4.09" H X 1.3" W X 0.91" D (103.89mm H X 33.02mm W X 23.11mm D)
- Max. ambient temperature: +40°C/104°F
- INDPB mounts in standard size wall box of at least 2.4"
- KSW-SIMs require standard junction boxes for mounting
- INDPB – Two ports that accept 18 AWG Class 2 Communication Bus for connection to the ENCELIUM® EXTEND Networked Light Management System
- KSW – SIMs have two ports that accept pre-terminated GreenBus II® communication cable
- Class 2 Low Voltage device
- Power through interconnected 18 AWG GreenBus II cable
- Complies with the following electromagnetic requirements:
  - EN 61000-4-2
  - EN 61000-4-4
  - EN 61000-4-5
- FCC Part 15/ICES-003
- cULus Listed
- Energy Management Equipment (UL 916)

## Ordering Information

Item #	Ordering Description	Field Bus	Modifiers
45250	EN-WS-INDPB-GB2	GB2	—
45287	EN-WS-INDPB-GB2-DR	GB2	Damp-Rated (DR)
45326	KSW-300	GB2	—

## ENCELIUM EXTEND Wall Stations

**INDPB connection to GreenBus II®**

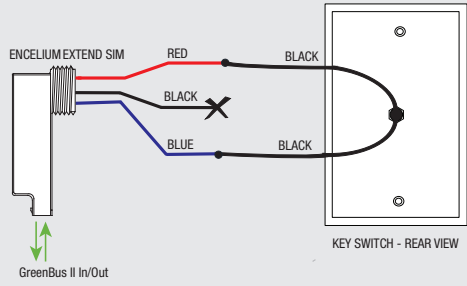


\*GreenBus II wires (Pair 1 & 2) should not be crossed. GreenBus II wires are polarity independent. Jacket colors are based on supplied wire. Other wire jacket colors may vary.

**To connect ENCELIUM EXTEND pre-terminated cable to INDPB:**

1. Remove connectors if using ENCELIUM EXTEND pre-terminated cables.
2. Strip GreenBus II cable with insulation exposing copper (strip 8mm or 5/16").
3. Depress the locking mechanism.
4. Hold beginning of insulation and insert copper portion of cable into terminal block.

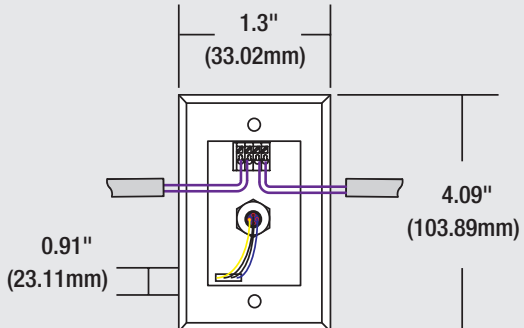
**SIM connection to KSW**



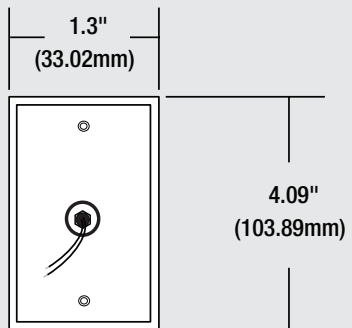
**To remove the GreenBus II cable, depress the locking mechanism.**

## Dimensions

**Industrial Push Button Wall Station**



**Key Switch Controller**



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