



# Industrial Push Button Wallstation and Key Switch Station

## Wiring and installation manual

## Overview

The Industrial Push Button and Key Switch Station interfaces to the ENCELIUM® EXTEND Networked Light Management System. The module obtains its operating power together with communication signals via the GreenBus II®. The module features several options for functionality depending on the model installed.

The Industrial Push Button and Key Switch Station obtains its address during the commissioning process and no actions are required during installation.

The following models are available:

	<b>Indoor Location Part Number</b>	<b>Damp Location Part Number</b>
Industrial Push Button	EN-WS-INDPB-GB2	EN-WS-INDPB-GB2-DR
Key Switch	EN-WS-KEYSW-GB2	EN-WS-KEYSW-GB2-DR

## Important Safeguards



When using electrical equipment, basic safety precautions should always be followed, including the following:

- READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment is not recommended by OSRAM SYLVANIA as it may cause an unsafe condition.
- Do not use this equipment for other than the intended use.



SAVE THESE INSTRUCTIONS

## GreenBus II Wiring

### Communication Circuit (24Vdc, Class 2)

GreenBus II® is a low-cost, high reliability communication means to report sensor information back to the ENCELIUM® EXTEND Networked Light Management System and to obtain optimum brightness settings for light fixtures from the system – optimized to result in minimum energy costs for any given building.

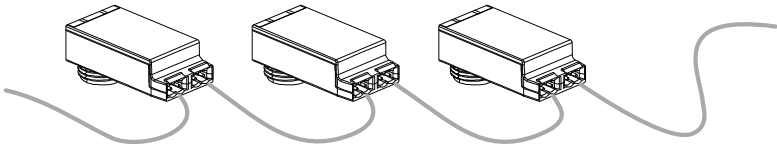
The GreenBus II wiring originates at an ENCELIUM EXTEND Manager and propagates in a daisy-chain or “T” fashion from module to module (or other compatible equipment).



GreenBus II uses proprietary connectors and jacks for ease of installation only. GreenBus II is a proprietary standard. Connect to ENCELIUM EXTEND Networked Light Management System only. Do not connect to other circuits.



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Maximum 100 total devices

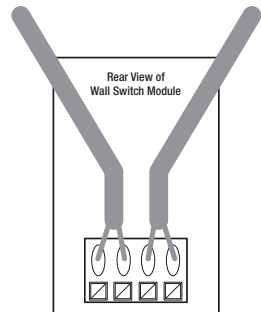
GreenBus II must be laid out as per ENCELIUM EXTEND LMS supplied drawing. If changes are required, determine an optimum wiring path utilizing the supplied prefabricated cables, based on the position of light fixtures and sensors. As the modules obtain power via the GreenBus II, the number of modules on each chain is limited. It is suggested to leave room for future system upgrades and to limit the number of modules per chain to 100 units during initial installation.

## Industrial Push Button and Key Switch Station Installation

The Industrial Push Button and Key Switch Station is a Class 2 circuit.

In a typical installation, Industrial Push Button and Key Switch Stations are installed onto a wall junction box.

The Industrial Push Button and Key Switch Station connects to the ENCELIUM EXTEND Networked Light Management System. It is recommended for convenience and serviceability to use an electrical junction box to hold the necessary wiring and to securely mount the Industrial Push Button and Key Switch Station.



## Installation Notes

Various models of the Industrial Push Button and Key Switch Station are to be installed in dry, indoor locations ONLY. For damp installations, ensure to use the appropriately rated version of the Industrial Push Button and Key Switch Station (see Models section of this manual). Damp locations are defined as: interior locations subject to moderate degrees of moisture, such as some basements, some barns, some cold-storage warehouses, and the like, and partially protected locations under canopies, marquees, roofed open porches, and the like.

## Troubleshooting

There are no user-serviceable parts inside of the Industrial Push Button and Key Switch Station. Please return the device to OSRAM SYLVANIA Inc. if service is required.

The contents of this Wiring and Installation Manual are subject to change without notice.

OSRAM SYLVANIA Inc.  
200 Ballardvale Street  
Wilmington, MA 01887 USA  
888-531-7573  
[www.osram.us/ds](http://www.osram.us/ds)

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