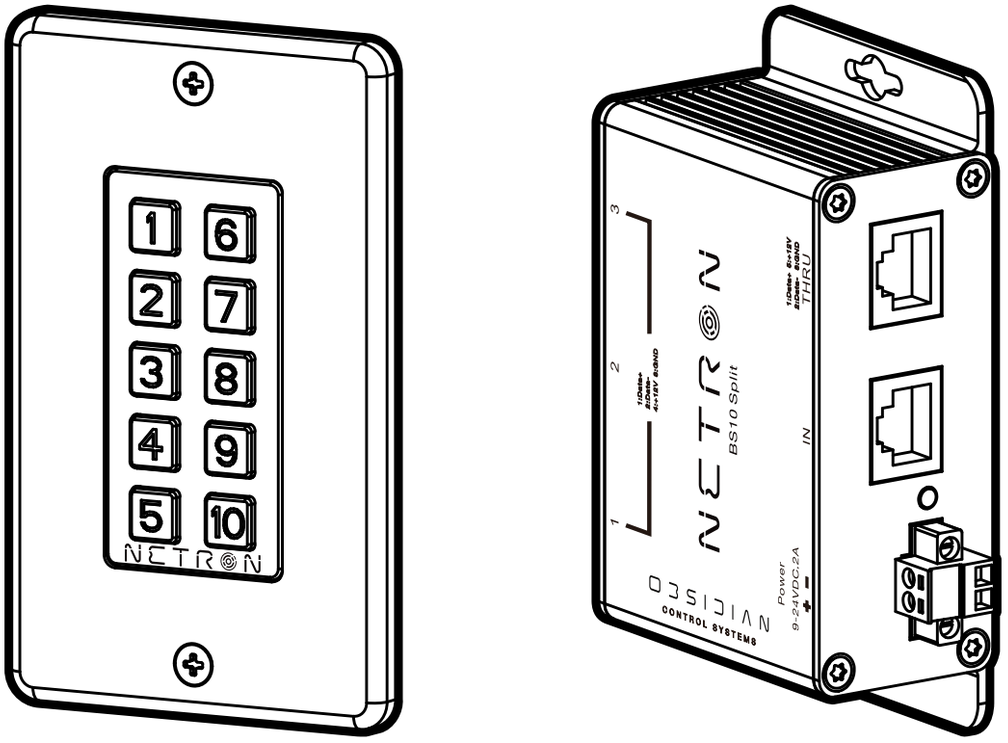
OBSIDIAN™

CONTROL SYSTEMS



NETRON
BS10/BS10SPLIT
Installation Guide

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Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

Document Version: An updated version of this document may be available online.
Please check www.obsidiancontrol.com for the latest revision/update of this document before beginning installation and use.

Date	Document Version	Note
07/23/2024	1	Initial Release
05/20/2025	1.1	Added BS10 Split

CONTENTS

GENERAL INFORMATION 5

LIMITED WARRANTY 7

SAFETY GUIDELINES 10

BS10 12

- OVERVIEW 12
- INSTALLATION 14
- SPECIFICATIONS 16
- DIMENSIONS 17

BS10 SPLIT 19

- OVERVIEW 19
- INSTALLATION 21
- SPECIFICATIONS 22
- DIMENSIONS 23

MAINTENANCE 24

GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

UNPACKING

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

CUSTOMER SUPPORT

Contact your local Obsidian Controls Systems dealer or distributor for any product related service and support needs. Also visit forum.obsidiancontrol.com with questions, comments, or suggestions.

OBSIDIAN CONTROL SERVICE EUROPE

Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 63 | support@obsidiancontrol.com

OBSIDIAN CONTROL SERVICE USA

Monday - Friday 08:30 to 17:00 PST
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LIMITED WARRANTY (USA ONLY)

1. Obsidian Control Systems hereby warrants, to the original purchaser, Obsidian Control Systems products to be free of manufacturing defects in material and workmanship for a period of two years (730 days).
2. For warranty service, send the product only to the Obsidian Control Systems service center. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Obsidian Control Systems will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Obsidian Control Systems shall have no liability whatsoever for loss and/or or damage to any such accessories, nor for the safe return thereof.
3. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Obsidian Control Systems concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Obsidian Control Systems factory unless prior written authorization was issued to purchaser by Obsidian Control Systems; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.
4. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Obsidian Control Systems will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Obsidian Control Systems under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Obsidian Control Systems. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

LIMITED WARRANTY (USA ONLY)

5. Obsidian Control Systems reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
6. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Obsidian Control Systems in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Obsidian Control Systems be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.
7. This warranty is the only written warranty applicable to Obsidian Control Systems products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.
8. Use of Software and Firmware: To the maximum extent permitted by applicable law, in no event shall Elation or Obsidian Control Systems or its suppliers be liable for any damages whatsoever (including, but not limited to, damages for loss of profits or data, for business interruption, for personal injury or other loss whatsoever) arising out of or in any way related to the use of or inability to use firmware or software, the provision of or failure to provide support or other services, information, firmware, software, and related content through the software or otherwise arising out of the use of any software or firmware, even in the event of the fault, tort (including negligence), misrepresentation, strict liability, breach of warranty of Elation or Obsidian Control Systems or any supplier, and even if Elation or Obsidian Control Systems or any supplier has been advised of the possibility of such damages.

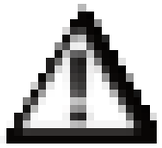
LIMITED WARRANTY (USA ONLY)

WARRANTY RETURNS: All returned service items, whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

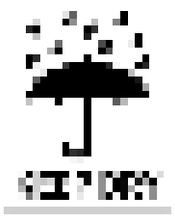
SAFETY GUIDELINES

This device is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. OBSIDIAN CONTROL SYSTEMS is not responsible for injury and/or damages resulting from the misuse of this device due to the disregard of the information printed in this manual. Only the original included parts and/or accessories for this device should be used. Any modifications to the device, included and/or accessories will void the original manufactures warranty and increase the risk of damage and/or personal injury.

PROTECTION CLASS 1 – DEVICE MUST BE PROPERLY GROUNDED



DO NOT ATTEMPT TO USE THIS DEVICE WITHOUT BEING FULLY TRAINED ON HOW TO USE IT. ANY DAMAGES OR REPAIRS TO THIS DEVICE OR ANY LIGHTING FIXTURES CONTROLLED BY THIS DEVICE RESULTING FROM IMPROPER USE, AND/OR THE DISREGARD OF THE SAFETY AND OPERATION GUIDELINES IN THIS DOCUMENT VOIDS THE OBSIDIAN CONTROL SYSTEMS WARRANTY, AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS, AND MAY ALSO VOID THE WARRANTY FOR ANY NON-OBSIDIAN CONTROL SYSTEMS DEVICES.
KEEP FLAMMABLE MATERIALS AWAY FROM DEVICE.



DRY LOCATIONS USE ONLY!
DO NOT EXPOSE DEVICE TO RAIN, MOISTURE, AND/OR SEVERE ENVIRONMENTS!
DO NOT SPILL WATER AND/OR LIQUIDS ON OR INTO THE DEVICE!

SAFETY GUIDELINES

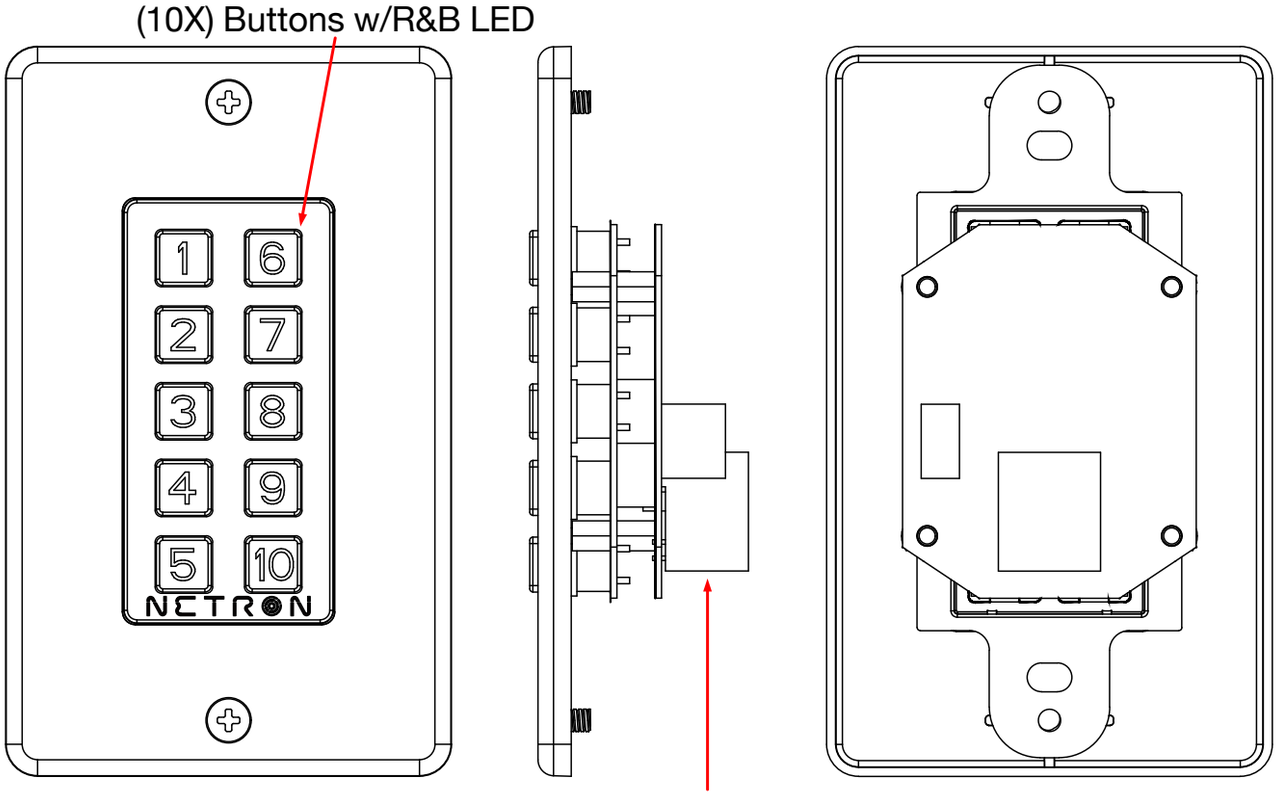
Do not expose the device to rain or moisture.
Refer all service to a qualified technician.
Do not modify the device or install other than genuine Netron parts.
CAUTION: Risk of Fire and Electrical Shock. Use only in dry locations.
AVOID brute force handling when transporting or operating.
DO NOT expose any part of the device to open flame or smoke. Keep device away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
DO NOT use device in extreme and/or severe environments.

BS10 OVERVIEW

The **NETRON BS10** is an elegant wall station for cue or preset recall from the EN12i EtherDMX Node. 10 Backlit and numbered buttons provide easy feedback, and the RJ45 connection combines power and data for simple and efficient connectivity to the NETRON node over standard CAT5 wiring.

KEY FEATURES:

- 10 Button Remote for EN12i
- 10 Red / Blue Backlit Buttons
- Cue or Preset Recall
- US Cover Plate



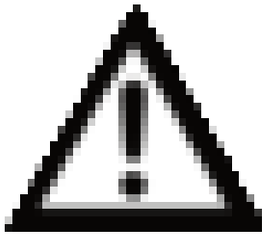
BS10 OVERVIEW

ETHERNET DATA CONNECTION

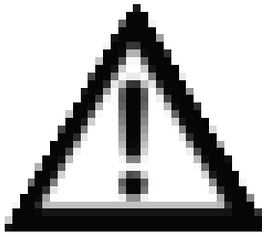
The Ethernet cable is connected on the back of the BS10 device. The BS10 employs a proprietary data protocol, rendering it incompatible with conventional Ethernet devices such as switches or personal computers. Attempting to connect the BS10 or NETRON device to standard Ethernet equipment may result in damage, and such incidents are not covered by the warranty. Please note that the BS10 supports a single direct connection exclusively to an EN12i.

Note: Maximum distance from EN12i to BS10 is 100m/300ft.

BS10 INSTALLATION



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.

Device MUST be installed following all local, national, and country commercial electrical and construction codes and regulations.

MOUNTING OPTION:

- 1-Gang In-wall with included Decora cover plate

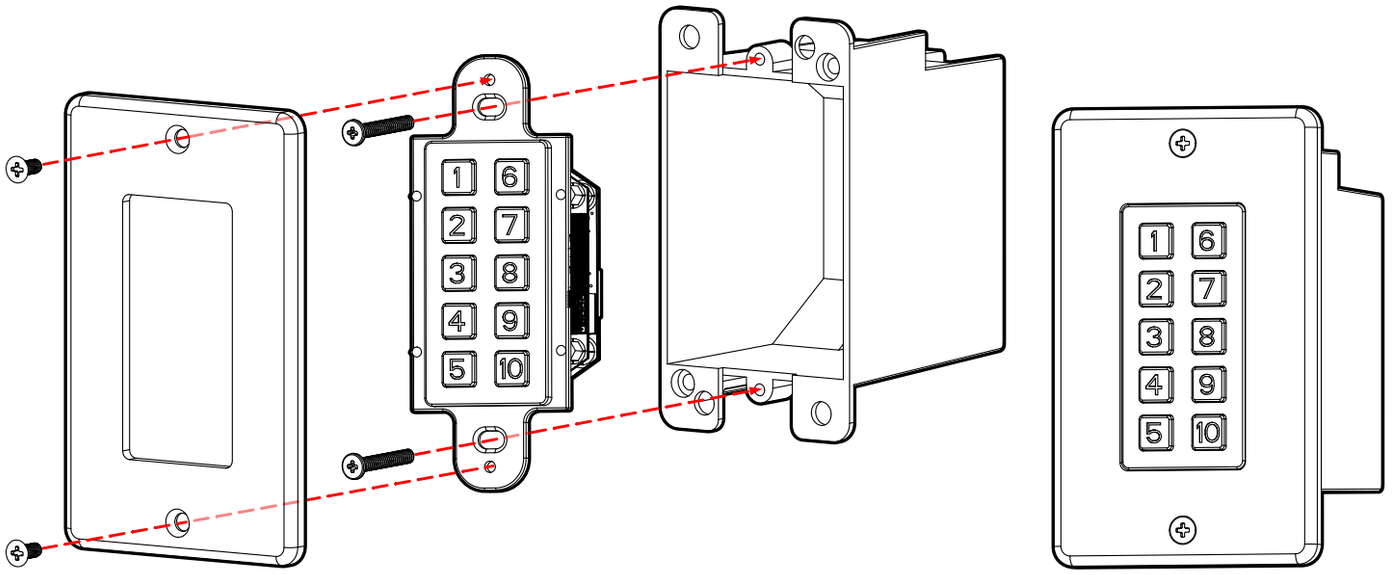
Wall-Mount/Panel Installation:

1. Mount and secure the integrated mounting-bracket to the junction-box with (2x) screws.

BS10 INSTALLATION

All wiring and connections must be performed by a qualified electrician.

2. Secure the cover plate to the junction box with (2x) screws.



BS10 SPECIFICATIONS

CONNECTIONS:

- RJ45
- CAT5e up to 300ft (100m)

REQUIREMENTS:

- Compatible with NETRON EN12i

PHYSICAL:

Length: 1.4 in. (35mm)

Width: 2.8 in. (70mm)

Height: 4.5 in. (114mm)

ELECTRICAL:

- 12V (from EN12i)

ORDERING:

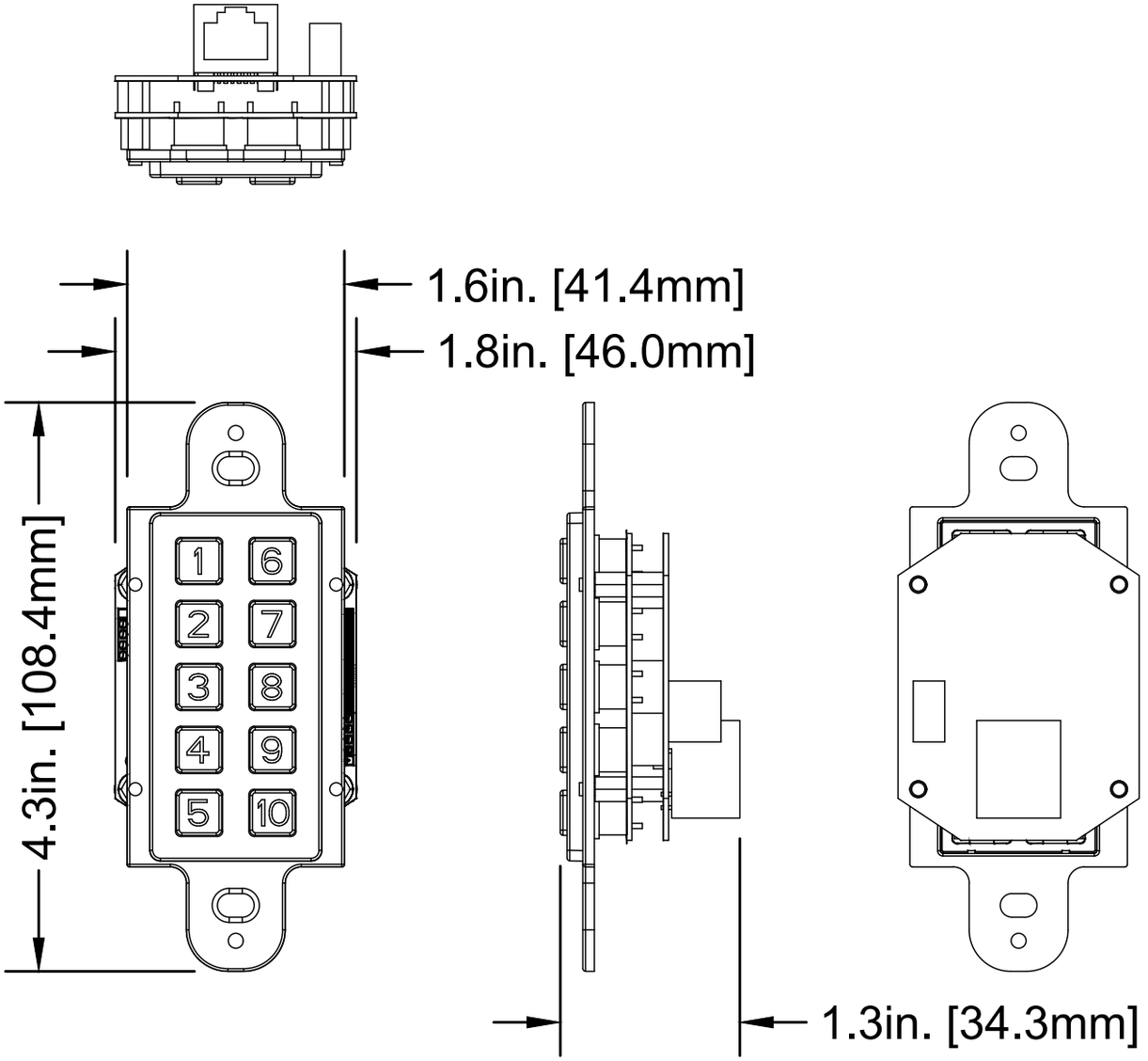
INCLUDED ITEMS:

- Netron Decora 1-Gang wall plate (US Model)

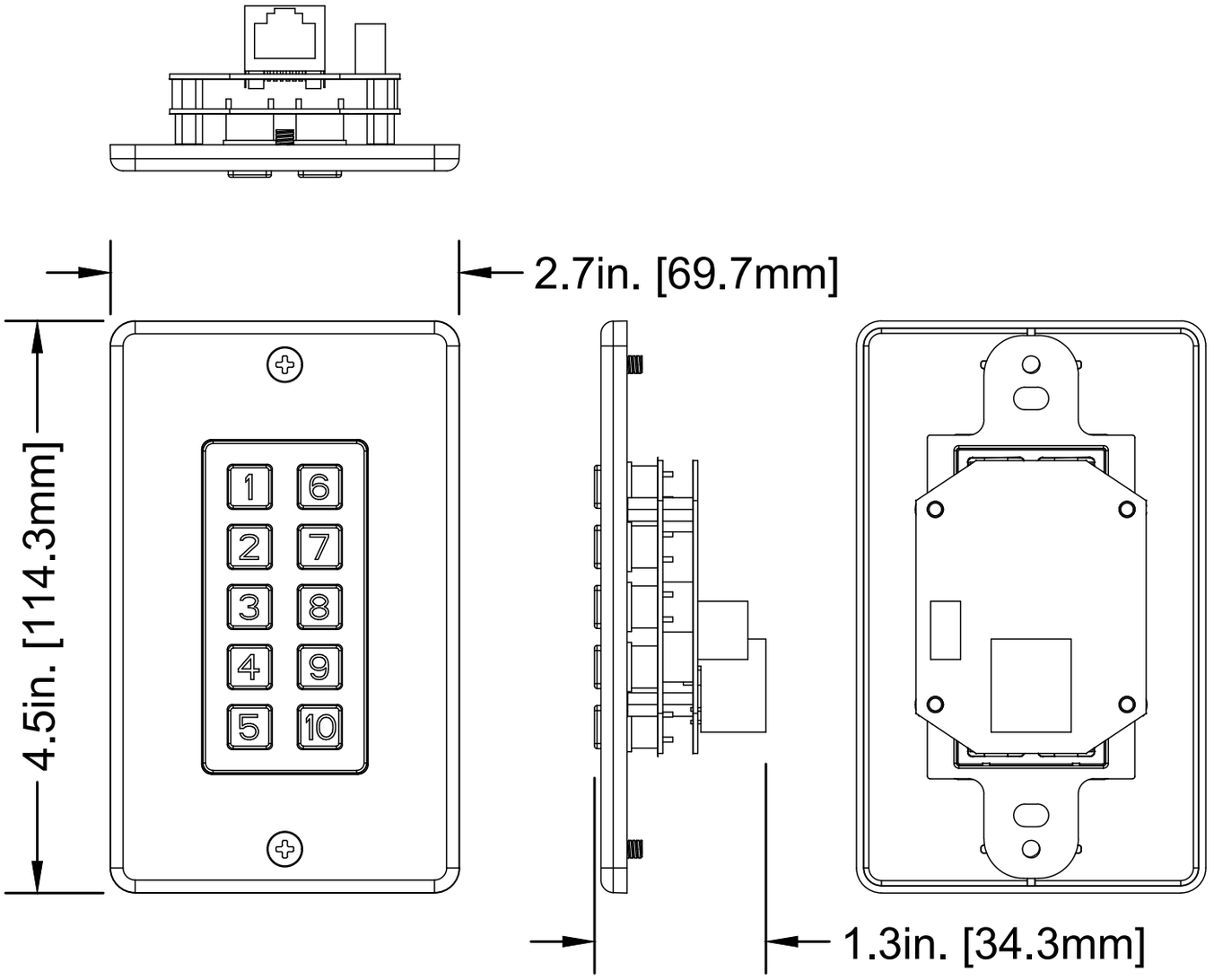
SKU:

- US #: NBS110

BS10 DIMENSIONS



BS10 DIMENSIONS



BS10 SPLIT OVERVIEW

The **NETRON BS10 Split** is a simple accessory to expand the NETRON BS10 button station from one to multiple devices and longer distances.
Simple wiring using RJ45 is compatible with the EN12i and BS10, allowing a maximum of ten BS10 devices to recall cues and presets in a synchronized manner

KEY FEATURES:

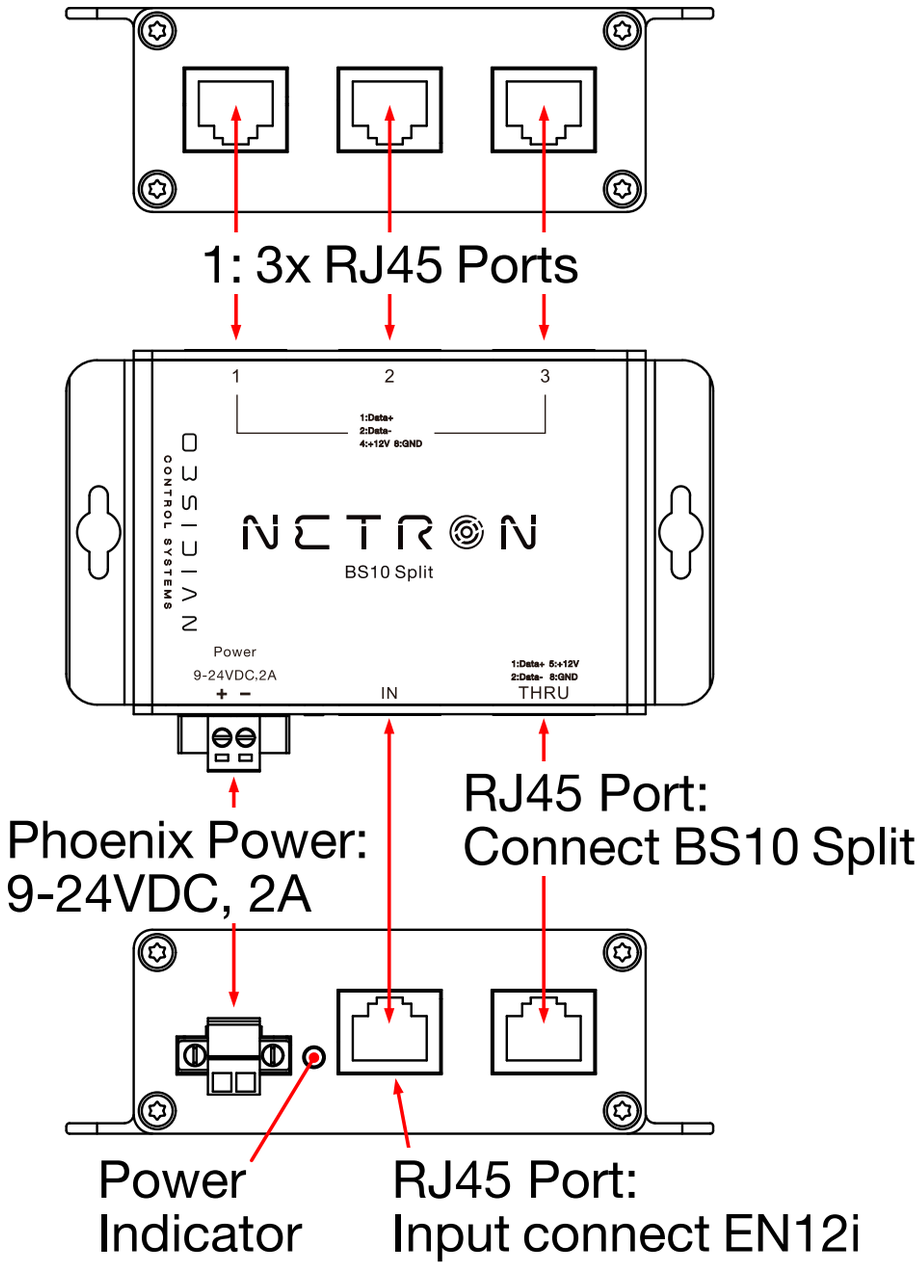
- Power Injector and Data Splitter for BS10 button stations
- 3 Outputs
- Data IN and THRU supporting NETRON EN12i and BS10 Split daisy chain
- RJ45 connections

ETHERNET DATA CONNECTION

Ethernet cables are connected on the sides of the BS10 Split. The BS10 Split employs a proprietary data protocol, rendering it incompatible with conventional Ethernet devices such as switches or personal computers. Attempting to connect the BS10 Split or NETRON device to standard Ethernet equipment may result in damage, and such incidents are not covered by the warranty.

Note: Maximum distance from EN12i to BS10 is 100m/300ft.

BS10 SPLIT OVERVIEW



BS10 SPLIT INSTALLATION

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

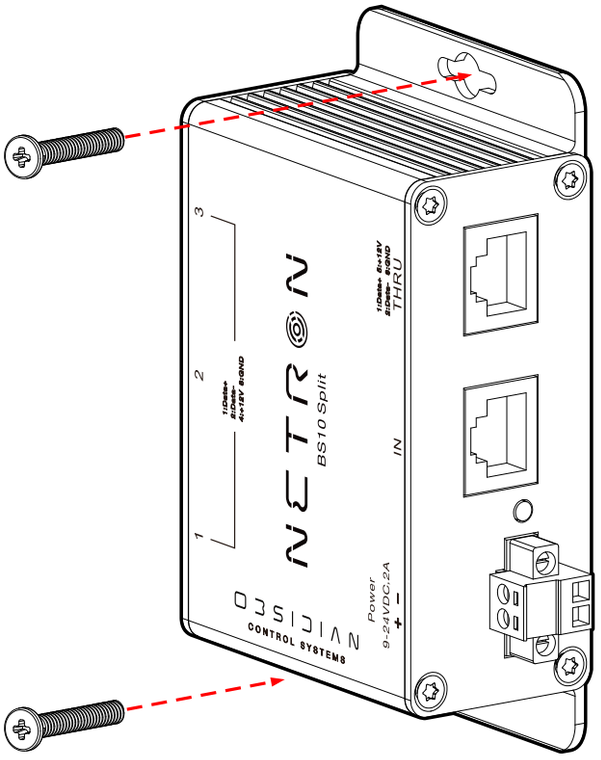
ELECTRICAL CONNECTIONS
A qualified electrician should be used for all electrical connections and/or installations.

Device MUST be installed following all local, national, and country commercial electrical and construction codes and regulations.

Wall-Mount/Panel Installation:

1. Mount and secure the integrated mounting-bracket to the wall with (2x) screws.

All wiring and connections must be performed by a qualified electrician.



BS10 SPLIT SPECIFICATIONS

MOUNTING:
- Wallmount

CONNECTIONS:

FRONT:
- (2) RJ45 Data In/Thru
- DC In (2pin Terminal Block)

BACK:
- (3) RJ45 - BS10 Out

REQUIREMENTS:
- Compatible with NETRON EN12i
- CAT5e up to 300ft (100m) combined length

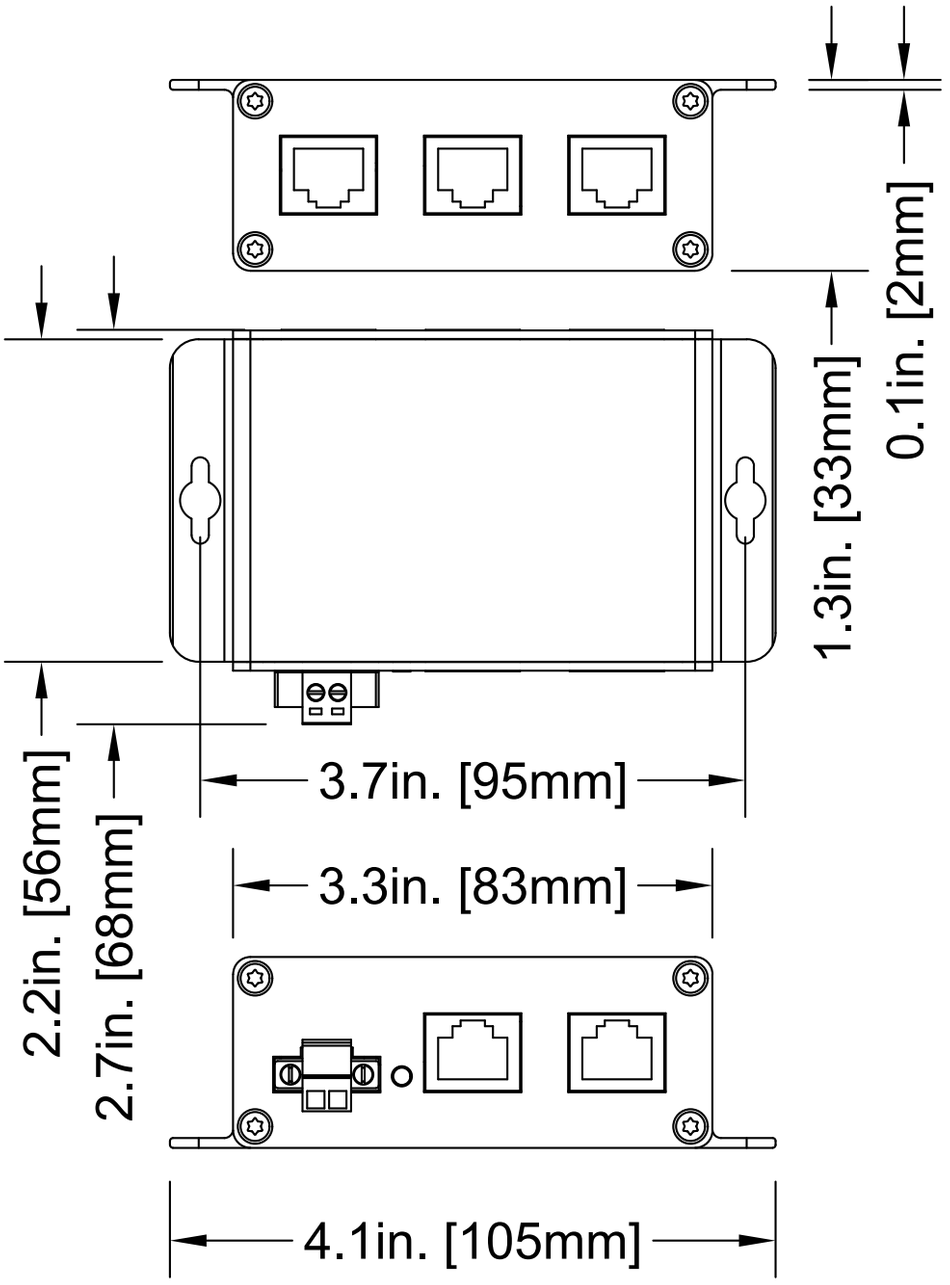
PHYSICAL:
Length: 4.1 in. (105mm)
Width: 2.3 in. (59mmmm)
Height: 1.3in. (32mm)
Weight: 0.31lbs (0.14 kg))

ELECTRICAL:
- 9-12V A2

ORDERING:

SKU:
- US #: NBS110

BS10 SPLIT DIMENSIONS



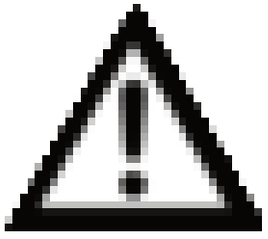
MAINTENANCE

The Obsidian Control Systems Netron BS10 is designed as a rugged device. The only required service is occasional cleaning. For other service-related concerns, please contact your Obsidian Control Systems dealer, or visit www.obsidiancontrol.com.

Any service that is not described in this guide must be carried out by a trained and qualified Obsidian Control Systems technician.

As any controller, the BS10 requires periodic cleaning. The schedule relies on the environment in which the controller is operated. An Obsidian Control Systems technician can provide recommendations if necessary.

Never spray cleaner directly onto the device surface; always spray into a lint-free cloth and wipe it clean. Consider using cleaning products designed for cellphone and tablet devices.



Important! Excessive dust, dirt, smoke, fluid build-up, and other materials can degrade the performance of the BS10 device, causing overheating and damage to the unit that is not covered by the warranty.