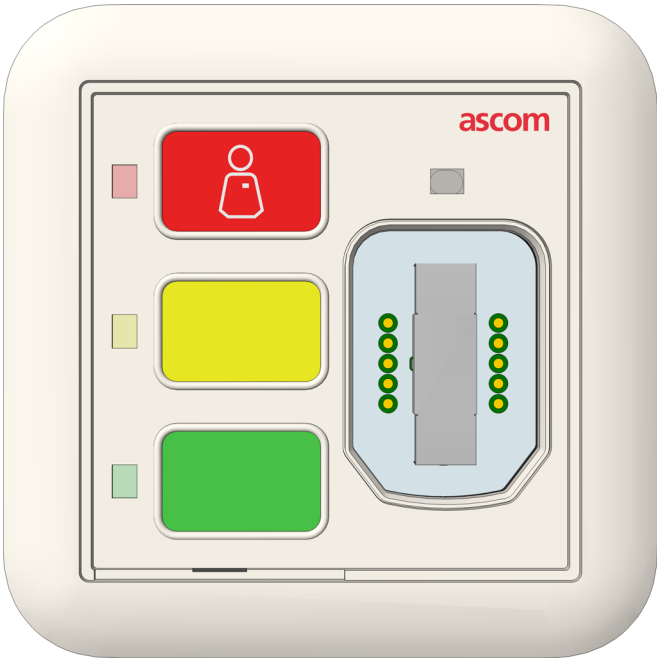
Passive Bedside Module Installation Sheet

Model NUBM3P-HE



Description

The Passive Bedside module (NUBM3P) is a wall-mounted device suitable for general rooms. This module connects to a passive room bus on the NUPBC-H Passive Bus Concentrator. The module features three customizable buttons and a magnetic Ascom SafeConnect socket for connecting NUHS-series bedside handsets.

Installation

Note: Before beginning the installation, ensure all the necessary cables are available and are properly terminated.

The module can mount to a backbox, or to a wall using a surface-mounting spacer (NUSP1-HE).

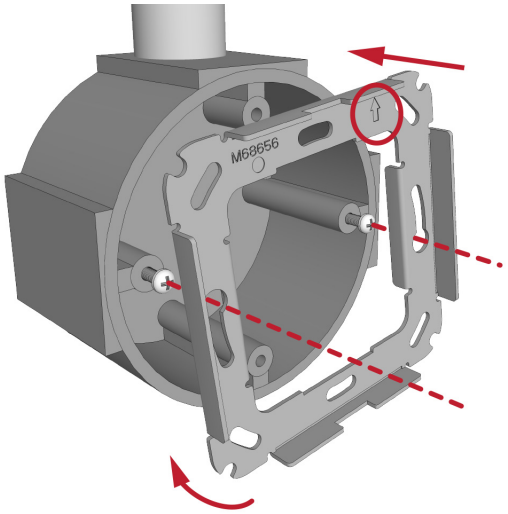
To mount the module on a backbox or spacer:

1. When using a backbox, loosen the screws on the backbox so that approximately 5mm extend out from the backbox and the heads of the screws can pass though the keyhole slots on the adapter plate.

   -or-

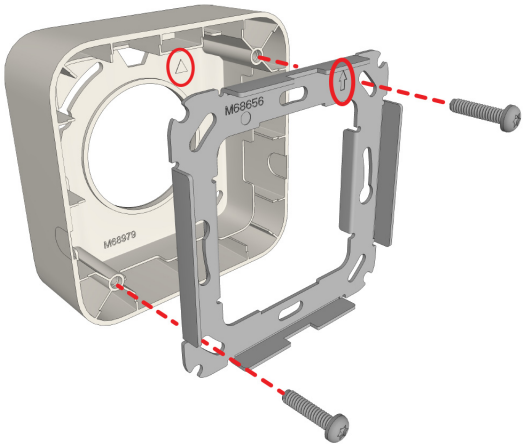
   When using a spacer, ensure it is properly mounted to the wall and that the adapter screws are available.

2. Place the adapter (with the arrow facing up) over the backbox and ensure that it is level.



-or-

When using a spacer, place the adapter over the spacer ensuring that it fits inside the spacer's housing.



3. Tighten the screws.

To mount a spacer to a wall:

1. Place the spacer against a flat wall and orient it so that "TOP" (printed on the inside of the spacer) is pointing up and that the spacer is level. Use a leveling device to check, if necessary.
2. Using the spacer as a template, mark two holes for the screws using the outer fitting holes located in the corners of the spacer.
3. Remove the spacer and drill screw holes for the screws that will be used, such as wood, concrete, or drywall screws, or screws with anchors.
4. Remove the knockouts in the spacer for the cable wires.

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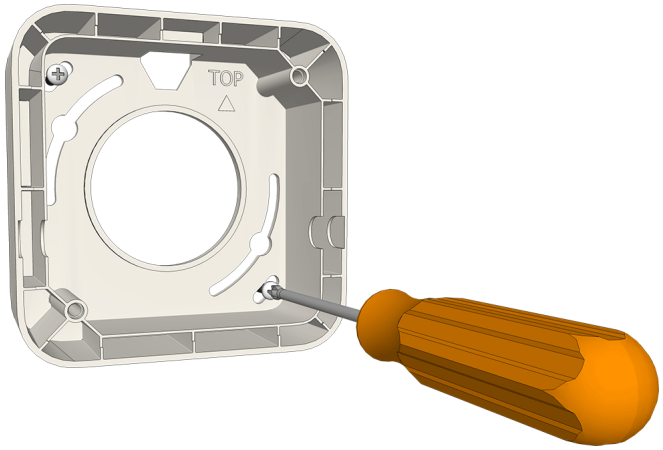
5. Place the spacer over the holes, insert the screws, and then tighten.



6. Pull the cables through the knockout holes.

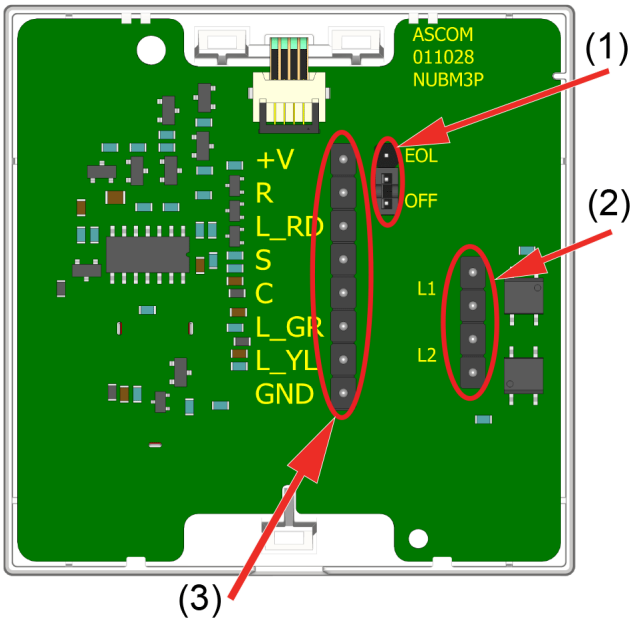
Passive Bedside Module Connections and Jumper

The module connects to a passive room bus using an 8-pole connector. The connector carries 5.5VDC power, input, and output lines. It can be daisy-chained with other peripheral devices on the same bus.

The module includes normally-open solid state relays that connect to a bed light's lamp switching relays and allows the handset to control the two bed lights.

The module also includes a jumper to activate an End-of-Line resistor (EoL) when the module is last one on the passive bus.

Figure 1: Module connections



Legend
(1) Jumper for End-of-Line (EoL)
(2) 4-pole connector connects to lamp switching relay
(3) 8-pole connector for controlling room lights

Figure 2: 8-pole passive bus connector pinouts

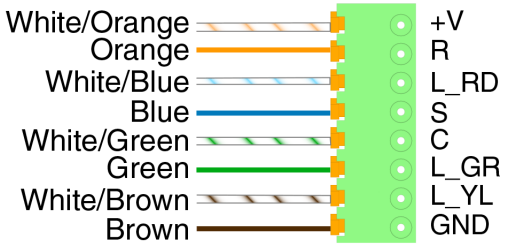


Table 1. 8-pole passive bus pinout description

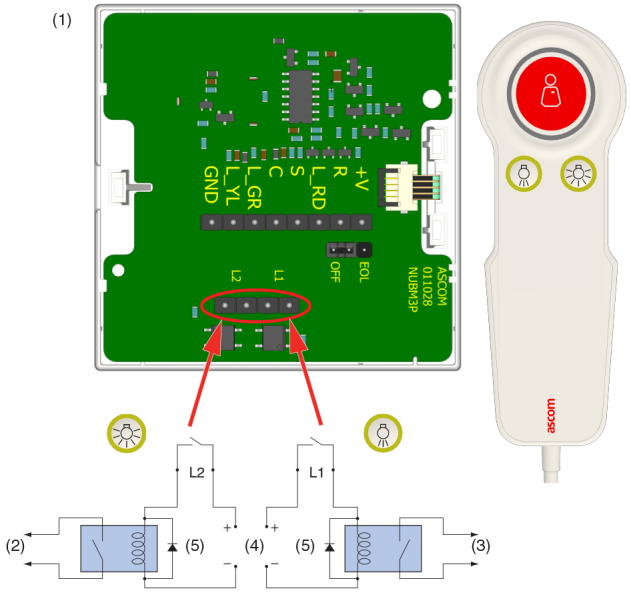
Pin #	Pin	Description	Color
1	+V	Positive power	Orange/White
2	R	Reset	Orange
3	L_RD	LED Red	Blue/White
4	S	Set	Blue
5	C	C-line	Green/White
6	L_GR	LED Green	Green
7	L_YL	LED Yellow	Brown/White
8	GND	Ground	Brown

Light Switching Relay Maximum Load and Surge Damping Diode

The Bedside module includes two light switching circuits. Each circuit is suitable for switching a bi-stable 24VDC relay. The maximum switching current for each relay must not exceed 0.2A at a maximum of 30VDC. Use a 4-pin connector to terminate the light switching relay contacts.

Use an external surge damping diodes to protect the switching relays on the NUBM3 module. An external power source and external relay are needed for the light switching function. The diode, power supply, and external relay are all provided by the installer.

Figure 3: Light switching relay with surge damping diode



Legend
(1) Bedside module
(2) To bed light
(3) To room light
(4) Light switching relay power supply
(5) External relay with protection diode

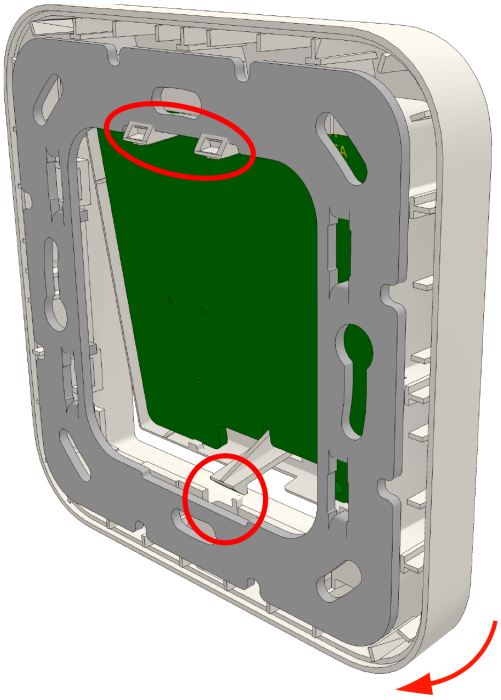
To connect a passive bedside module:

1. Slide the cables with their connectors through a module frame.
2. If this is the last device on the passive room bus, move the EoL jumper to the first and second pins (labeled EOL); otherwise, leave the jumper in its default position (OFF). See Figure 1, item 1.

   Note: EoL must also be set in systems using the System Configuration Tool.
3. If you are using the module to operate the light switching relays, attach the 4-pole connector cable for the light switching relays to the 4-pin terminal. See Figure 1, item 2. Ensure the connector is seated properly on the pins.
4. Attach the 8-pole room bus connector cable to the 8-pin terminal. See Figure 1, item 3. Ensure the connector is seated properly on the pins.

To attach the module on the adapter:

1. Place the module against the frame, ensuring that the module is facing up.
2. Place the module's upper snap fasteners against the upper edge of the adapter.



3. Press the module very firmly against the adapter so that the module's bottom fasteners snap closed on the adapter.

Note: The module locks tight to the adapter to prevent it from bending when removing a cable from the SafeConnect socket.

Removal

When separating the module from an adapter or spacer, use a screwdriver with a flat blade that is approximately 6mm wide.

To remove the module from a backbox or spacer:

1. Insert the screwdriver blade into the slot at the bottom of the module between the faceplate and the adapter.

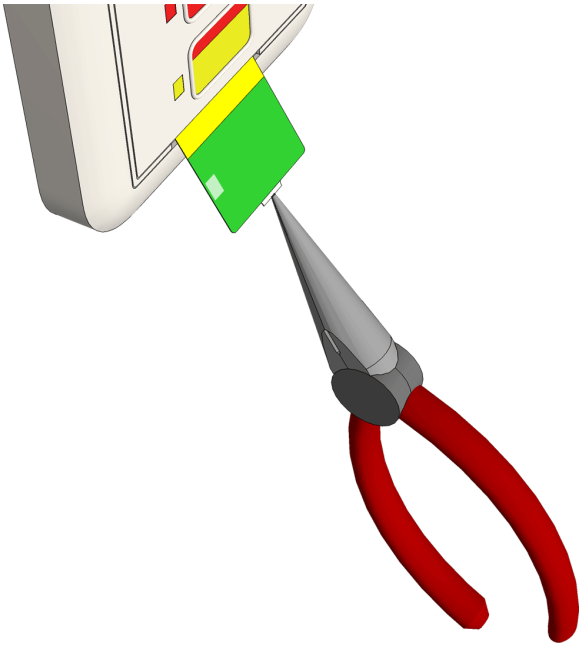
   Caution: Do not insert the screwdriver into the bottom corner of the frame, as this may damage the frame or module.
2. Gently push the screwdriver blade until the module releases from the adapter.
3. Remove the module from the adapter.

Inserting Customized Button Labels

Accessories for the module include Customizable Button Insert Kits (P/N NUCBK-HE and NUCBK-HK). Each kit contains a variety of color strips that easily insert into the module's faceplate to cover the buttons and LEDs for a custom look. The kits include strips for one, two, or three button configurations. Kits are sold separately.

To insert the button labels:

1. Using small needle-nose pliers, grasp the edge of the existing button label and pull it out of the button label channel.



2. Slide your new custom button label into the button label channel.

Specifications

Wire/terminations	4-pin terminals 8-pin terminals
Compatible electrical boxes (metal or plastic)	
European Union	**EU** box (or equivalent) Single backbox with mounting holes 60mm (2.36in.)
United Kingdom	**MK** Honeywell models (or equivalent) 1-gang: 861ZIC, 866ZIC, 877ZIC **Note:** UK backboxes require single (NUMP86-HK) or dual (NUMPD86-HK) mounting plates.

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