

## Specifications

|                           |   |
|---------------------------|---|
| Order code                | AB444220035   |
| Dimensions<br>(W x H x D) | 53.5 x 90.5 x 62 mm<br>0.76 x 0.30 x 0.20 in (without fastening clip)   |
| Weight                    | 100 g   |
| Power                     | 24 V DC on screw terminal plug<br>wire gauge: 0.25 ... 1.5 sqmm,<br>(0.5 sqmm for flexible wires with ferrules)<br>or<br>Power over Ethernet (PoE), IEEE 802.3af    |
| Power consumption         | max. 2 W incl. RS-485 termination   |
| Operating temperature     | 0 ... 50 °C/32 ... 122 °F   |
| Storage temperature       | -10 ... 70 °C/14 ... 158 °F   |
| Operating/storage hum.    | 0 ... 80%, non-condensing   |
| Protection class          | IP20  |
| Electrical safety         | SELV  |
| Housing                   | Self extinguishing blend PC/ABS,<br>UL document E140692   |
| Mounting                  | According to DIN 43880 for rail mounting<br>(EN 60715), width: 3 units<br>or wall mounting, 1 screw   |
| Cooling                   | fanless, convection cooling   |
| User interface            | 5 LED indicators<br>(RS-485 status, RS-232 status, Error, Ethernet,<br>Device status)<br>1 push button  |
| System links              | 1 x e:net/Ethernet, RJ45 CAT5 shielded  |
| Serial interfaces         | 1 x RS232, isolated (1kV)<br>1 x RS485, isolated (1kV)<br>3-pin terminal plug<br>RS-485 short circuit protected:<br>$I_{SCmax} = 112 \text{ mA}$ , thermal shutdown |

e:cue SYMPL serial Node Installation Guide  
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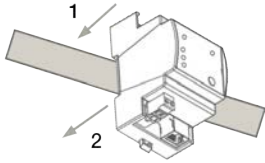


## SYMPL serial Node Installation guide

### Safety instructions

-  The product must only be installed and put into operation by a qualified electrician. The applicable safety regulations and accident prevention regulations must be observed. Otherwise the unit may be damaged or injuries may happen.
-  The product may only be operated in the operating modes described in the manual. All other applications are considered to be inappropriate use. If the product is not used as intended, there is no guarantee that it will operate safely.
-  Only work on the product when it is de-energized to prevent electrical shocks. Incorrect handling may damage the unit.
-  Do not route network, DMX or any other communication line together with power lines. Data traffic or functions can be disturbed.
-  Only use the device in compliance with the environmental conditions specified in the technical data. Otherwise the unit will be damaged.
-  To prevent the device from overheating, only operate it in well-ventilated environment. The ventilation slots may not be obstructed. Otherwise the unit may overheat and fail.
-  Do not use the device if power supply, power cables or power wearing lines are damaged to avoid electrical shocks or fire.
-  Repairs may only be carried out by authorized, specially trained personnel to ensure reliability. Incorrect handling may damage the unit. Such damages are not included by warranty.
-  If operation of the device requires a power supply only power supplies specified by OSRAM must be used. Other power supplies may damage the device. Such damages are not included by warranty.

## Installation



SYMPL Nodes are designed to mount onto a 35mm DIN rail (standard EN 50022, BS 5584) in a vertical position. It is clipped in to the rail from top. Gentle pressure is then applied to the top front to snap it in place. You can also mount e:cue SYMPL Nodes on any flat vertical surface. Use a 3 to 3.5 mm screw for the hanger hole.

## Installation conditions

Installation position:

Horizontal spacing:

Minimum vertical rail grid spacing:

Recommended vertical rail grid spacing:

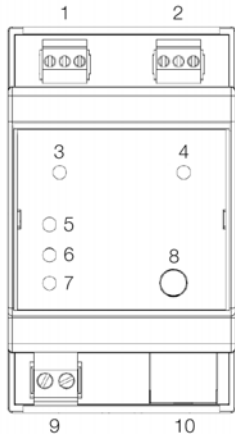
Terminals on top and bottom

no spacing necessary

115 mm (90 + 25 mm) w/o conduit

160 mm (with 40 mm conduit)

## Connectors and interfaces



|    |   |
|----|---|
| 1  | RS-485 interface<br>(GND, -, + left to right)   |
| 2  | RS-232 interface<br>(GND, Rx, Tx left to right) |
| 3  | RS-485 status LED *                             |
| 4  | RS-232 status LED *                             |
| 5  | Error LED                                       |
| 6  | LAN activity LED                                |
| 7  | Device status LED                               |
| 8  | Identify button                                 |
| 9  | Power supply<br>(Vcc+, Vcc- left to right)      |
| 10 | e:net/Ethernet                                  |

\*) Blue: receiving data  
Yellow: sending data

|                |   |
|----------------|---|
| Error          | If lights in red, an error occurred. This can be an internal error or malfunction of the device, or an external error, e. g. a shortcut of interface connections. Switch the device off and on. If the error persists, check the wiring or contact OSRAM Service. |
| e:net          | Off: no link available.<br>On: link established.<br>Blinking: e:net traffic.  |
| Status         | If blinking in one second intervals, the device is offline, no connection to a SYMPHOLIGHT server or Core is available. If constantly on, the device is online.   |
| Status + Error | If the Status and Error LED blink for 0.1 s every 0.5 s the server has send an Identify message to the SYMPL Node, to allow identification of the device.   |

The Identify button has two functions. A short press during operation in online mode sends an Identify message to the server. This helps to assign the Node in the Layout in SYMPHOLIGHT. The Identify button can also be used to reset the device to factory state or to stay in bootloader mode. Keep the Identify button pressed while powering up, Status and Error light up at first. Bootloader mode is signaled by a fast blinking Status LED. Release the button now. The device stays in bootloader mode to download a new firmware.

Keep the button pressed after powering up until Status and Error LED blink alternating, then blink together. Releasing the button now resets the device to its factory settings. Keeping the button pressed further on, the device proceeds to normal operation. No changes apply.

## Certifications



Conforms to ANSI/UL Std. 60950-1  
Certified to CSA Std. C22.2 NO. 60950-1

Entspricht ANSI/UL Std. 60950-1  
Zertifiziert nach CSA Std. C22.2 NO.

## Complete installation guide

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