

# Datasheet Zhaga Connection Box

## Flexible Integration for Smart Lighting

The Zhaga Connection Box is designed for easy installation on poles or walls, providing a versatile solution for smart lighting applications. Available with either one or two Zhaga sockets, it offers the flexibility to suit various project requirements. Its robust, weather-resistant housing ensures reliable performance in demanding outdoor environments, while multiple mounting options enable seamless integration into a variety of installation scenarios.



### External Zhaga Receptacle

Enables the simple integration of Zhaga-compatible controllers with existing luminaires by providing an external Zhaga receptacle.



### Plug-and-Play Installation

Enables quick and easy connection of Zhaga-compatible controllers through a plug-and-play receptacle.



### Flexible Mounting

The housing supports a range of mounting configurations, enabling straightforward installation on poles, walls and other surfaces.



### Robust Design

The weather-resistant housing ensures reliable performance and long-term durability, even in demanding outdoor environments.



### Integrated DALI PSU

The integrated DALI power supply unit powers the DALI bus directly, eliminating the need for an additional external power supply.



### Optional DALI Relay

Expands application flexibility by enabling additional switching functions for external loads, including conventional luminaires.



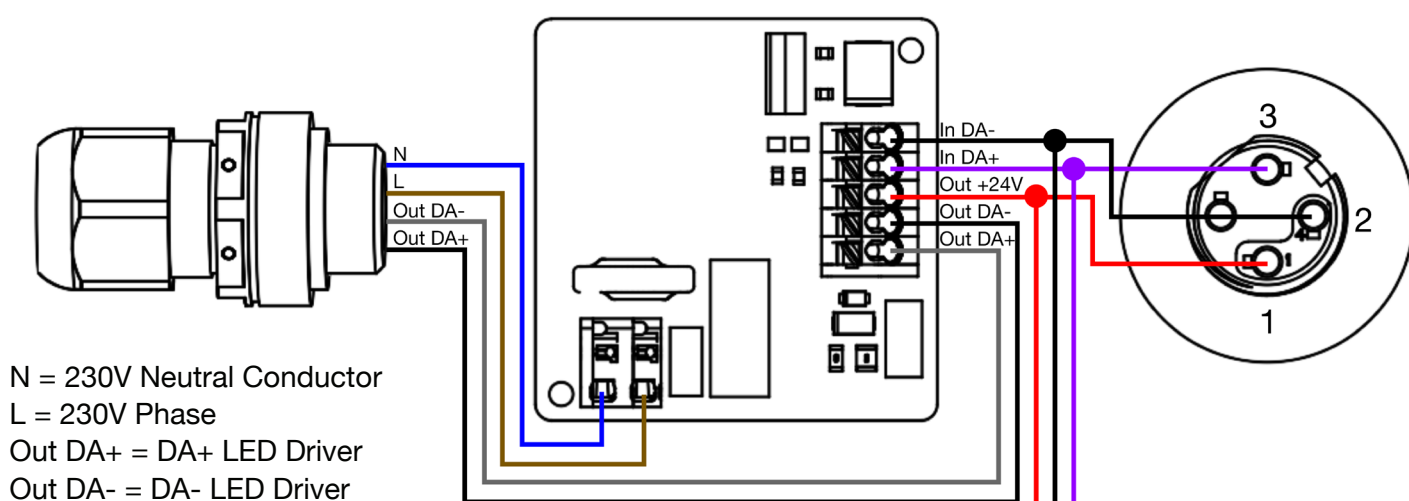
## Operating Parameters

|                               |                |
|-------------------------------|----------------|
| Supply Voltage Range          | 100 - 277 V AC |
| Current Input (24 V DC)       | < 0.5 mA       |
| Average Power Usage (24 V DC) | 110 mW         |
| DALI Input Current            | max: 240 mA    |
| Protection Class              | TBD            |
| Impact Protection             | TBD            |
| Fire Class                    | UL 94 HB V-2   |

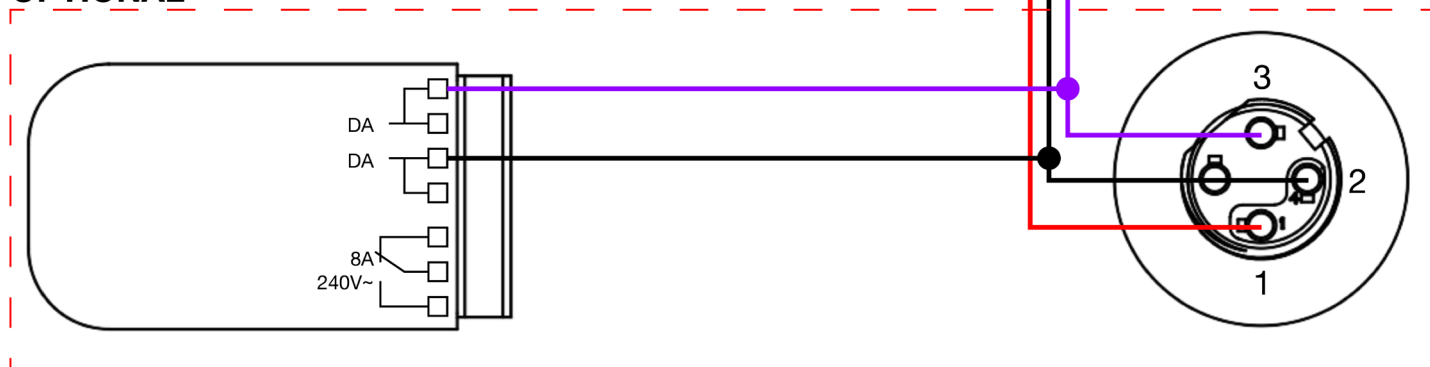
## Maximum Ratings

|                            |                                              |
|----------------------------|----------------------------------------------|
| <b>Supply Voltage</b>      | 305 V AC                                     |
| <b>Current Input</b>       | 150 mA                                       |
| <b>Storage Temperature</b> | -20...+85 °C                                 |
| <b>Surge Protection</b>    | 6kV, 2Ω (10 pulses according to IEC 62368-1) |

## Wiring



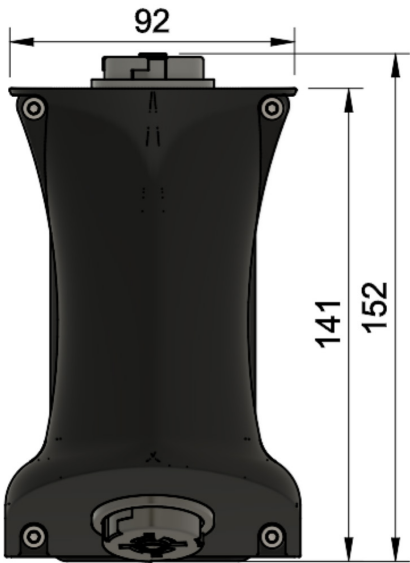
## OPTIONAL



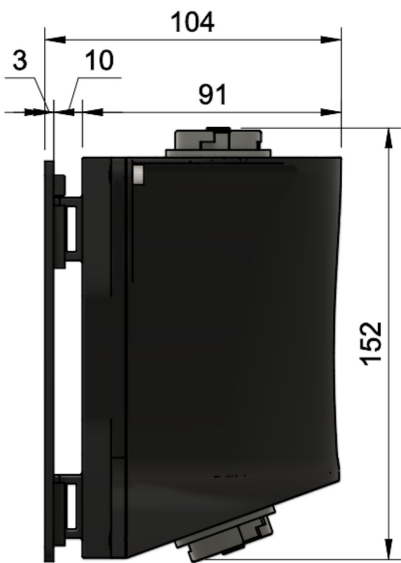
When two controllers are used, one DALI output is automatically disabled.

Dimensions Zhaga Connection Box

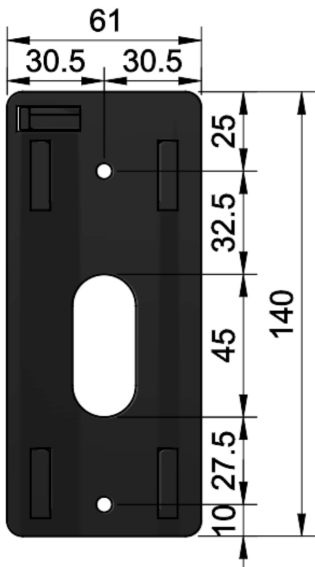
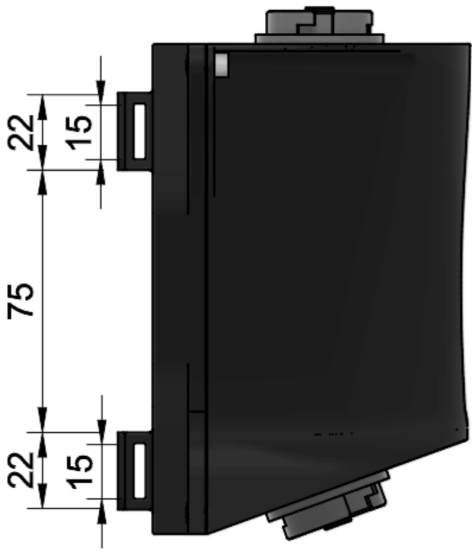
|                      |                    |
|----------------------|--------------------|
| Length               | 104.00 mm          |
| Width                | 88.00 mm           |
| Height               | 152.00 mm          |
| Weight               | 0.3 kg             |
| Housing Material     | Polycarbonate (PC) |
| Housing Color        | Black              |
| Cable Gland Material | Polyamide          |
| Membrane             | PTFE               |
| Cable Diameter       | 4 - 7 mm           |



Pole Mounting



Wall Mounting



## Variations

**802959: Zhaga Dual Connection Box**



**802957: Zhaga Top Connection Box**



**802960: Zhaga Bottom Connection Box**



All information has been carefully checked; however, errors and technical changes are reserved.