

LUMAWISE ENDURANCE POWER BRIDGE

POWERING SMART CITIES WITH REMOTE-MOUNTED SOLUTIONS

Designed to bridge the connectivity between remotely mounted sensors or control devices and a luminaire, TE Connectivity (TE)'s LUMAWISE Endurance Power bridge has been developed for the retro fit market, allowing for deployment of smart city controls, in three unique user cases. The first being to convert any DALI luminaire into a Zhaga-D4i platform, extending the capabilities of an existing Zhaga-D4i luminaire for higher power control devices and acting as a DC power tap when no driver control is needed. The LUMAWISE Endurance Power bridge has the same form factor as TE's successful LUMAWISE Endurance bridge but now includes an onboard 24V auxiliary and DALI bus power supplies. Capable of delivering up to 6.5W on the auxiliary rail and 90mA on the DALI bus* - going above the requirements defined in the Zhaga-D4i ecosystem.

The LUMAWISE Endurance Power bridge provides an aesthetic solution to remotely mount and power up to two control devices, converting an existing lighting network into a smart city platform ready for Zhaga-D4i control devices and sensors.

BENEFITS

- With power supplies delivering higher power output than the minimum requirements of Zhaga-D4i, you can select from a larger range of connected control devices and sensors
- Surge protection on the mains input as well as the DALI bus and auxiliary rail
- Control device surge protection that exceeds the requirements of DALI part 151
- Pole and wall mount options not only allow for DALI luminaires to be retrofitted, but control devices can now be deployed where lighting control isn't needed

APPLICATIONS



Street and Area Lighting



Smart Cities



Heritage and Decorative Luminaires



Retrofit Existing Deployed Streetlights

USER CASES



Upgraded DALI Network



Standalone Power Tap



Zhaga-D4i Enhanced Requirements

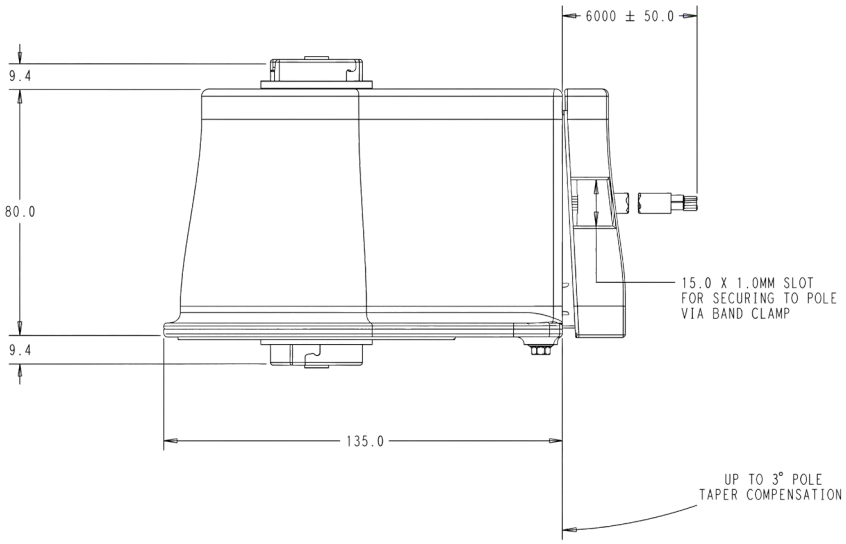
FEATURES

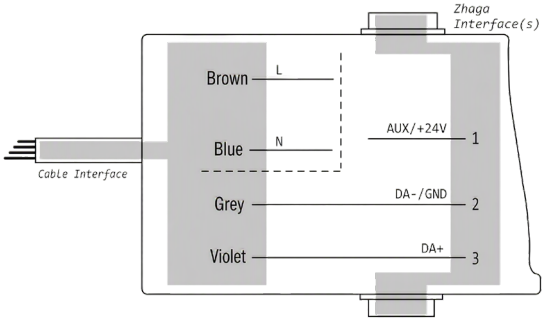
- One to two Zhaga interfaces, upwards/downwards or downwards facing options
- Auxiliary output:
  - 24V DC ± 10%
  - 6.5W max
  - 7.5W peak, 2.2ms repetitive pulses
- DALI Bus Power Supply output:
  - 58mA guaranteed over –40°C to 70°C temperature range
  - 90mA max**
- Mains input Surge protection: 6kV, 3kA
  - ANSI C136.10, Typical, Long Life
- DALI bus and auxiliary surge protection:
  - 1200V surge, both polarities
  - 56V maximum clamping voltage
- IP66 and IK09

*Capable of delivering up to 6.5W on the auxiliary rail with no load on the DALI bus, and 90mA on the DALI bus with a maximum 3.5W load on the auxiliary rail. See derating curve for more information.

**99mA 'Maximum Supply Current' as defined and required by DALI Part 101 (IEC 62386-101).

PRODUCT DIMENSIONS





Wiring and Zhaga Interface

PART NUMBERS

Item	Part Number	Number of Receptacles	Wall or Pole Mount	Cable Routing	Cable Length
1	1-2539228-1	Upper and Lower Receptacle	Pole 50mm - 100mm	Pole Interior	6m
2	2-2539228-1	Upper and Lower Receptacle	Pole 50mm - 100mm	Pole Exterior	6m
3	3-2539228-1	Upper and Lower Receptacle	Pole 100mm - 200mm	Pole Interior	6m
4	4-2539228-1	Upper and Lower Receptacle	Pole 100mm - 200mm	Pole Exterior	6m
5	5-2539228-1	Upper and Lower Receptacle	Wall	Pole Exterior	6m
6	9-2539228-7	Upper and Lower Receptacle	Pole 50mm - 100mm Pole 100mm - 200mm Wall	Pole Interior	6m
7	9-2539228-8	Lower Receptacle Only	Pole 50mm - 100mm Pole 100mm - 200mm Wall	Pole Interior	6m

All part numbers are kits, including mounting adaptor plates listed in the column labelled 'wall or pole mounted', and mounting hardware.

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