TEDSON DATASHEET | ENGLISH

CBU-PWM4-LR - Casambi 4-channel PWM dimmer, 6 A

Casambi Long Range PWM dimmer for 12-24 V constant-voltage LED loads. Four channels for applications such as single colour, tunable white or RGBW. Maximum 6 A total across all channels.

Article numbers: CBU-PWM4-LR

Model	CBU-PWM4-LR
Supply	12-24 V DC, constant voltage
PWM channels	4
Maximum combined current	6 A
Maximum output power	144 W at 24 V / 72 W at 12 V
PWM frequency	400 Hz
Recommended minimum load	3 W
Maximum input/output cable length	3 m
Operating temperature	-20…+45 °C
Maximum case temperature (tc)	+65 °C
Dimensions (L × W × H)	72.6 × 30 × 18 mm
IP rating	IP20

For constant-voltage LED strip

PWM4-LR sits between a separate 12-24 V DC constant-voltage supply and a compatible LED load. Select a profile for single colour, tunable white, RGB or RGBW.

The outputs use a shared positive connection and separate negative connections for the four PWM channels. Match the strip and profile to the same channel arrangement and follow the original wiring diagram.

6 A is the combined module limit

The sum of the current in all channels must not exceed 6 A. This corresponds to up to 144 W at 24 V or 72 W at 12 V; the limit must not be counted separately for each channel.

Use a Class II constant-voltage supply, not a constant-current LED driver. The original specifies a maximum 3 m input/output cable length. Also check voltage drop, conductor size, supply capacity and temperature in the completed installation.

Select the right radio mode

Long Range operation requires a network set to Long Range and other devices in that network that support the mode. Balanced and Better Performance use standard range.

Building materials, the luminaire enclosure and placement affect radio communication. Verify operation at the installation site; a stated distance is not a guarantee through walls.

Installation and documentation

Electrical connections must be made by a qualified professional with the supply disconnected and verified dead. Follow the exact model's EU instructions for wiring, conductors, enclosure and temperature.

This Tedson sheet summarises product selection and key limits. The linked Casambi original contains the model's wiring diagrams, fixture profiles and complete installation conditions.

Sources and further reading

CBU-PWM4-LR - Product technical specifications (EU, English) · EU v1.3 EN ↗

https://casambi.com/ecosystem/cbu-pwm4-lr/ ↗

Reviewed 17 October 2026. Menu names and functions can differ between app versions, models and profiles. Verify functions in the actual installation. This Tedson summary does not replace the model's complete installation instructions.