

Capacitive Touch Dimming Controller, DC 12–24V, Up to 576W Output

OVERVIEW

The C-1-R288 is a capacitive touch dimming controller designed for single-channel LED dimming applications. It accepts a DC 12–24V input and uses a wireless remote with a high-precision capacitive touch chip, including a color ring interface and dedicated brightness buttons. Compatible with LED strip lights, panel lights, and point-source LED fixtures, it is suited for commercial and architectural lighting control installations.

The controller delivers up to 288W output at DC 12V or up to 576W at DC 24V, with a maximum channel current of 8A. Output frequency is 300Hz, and static power consumption is under 1W. The included wireless remote operates on 3x AAA batteries, provides a control range exceeding 20m, and enters standby after 30 seconds of inactivity with a standby battery life of over 6 months. Operating temperature range for the remote is -20°C to 60°C. Controller dimensions are 83 x 79 x 33 mm (L x W x H).

No certifications are confirmed in the available source documentation. No warranty terms are specified in the provided datasheet. Installers should verify compliance requirements for their jurisdiction prior to deployment.

SPECIFICATIONS

Input voltage	12-24V V	Operating temp	-20 to 60 °C
Power	288 W	Dimensions	83 x 79 x 33 mm