

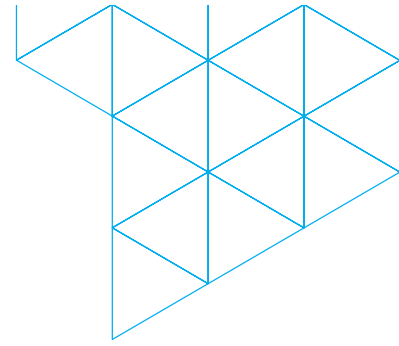
# CRISTAL

## Dimming Solutions

Smart  
Energy  
Solutions

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## DIMMING

### Low-Voltage Dimming Control Systems

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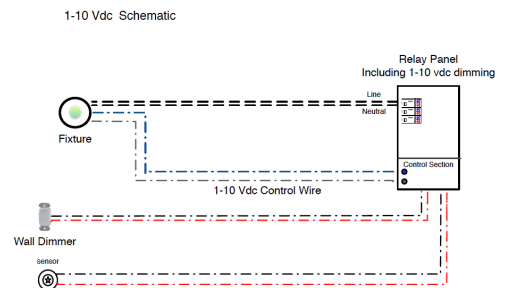
0-10 Vdc DALI and EnOcean combined

Dimming linear fluorescent lamps offers a number of significant benefits for building owners and operators:

- ▶ Flexibility, enabling the lighting system to adapt to multiple activities and changing space needs.
- ▶ Cost savings, derived from direct energy savings as well as load reduction during peak demand periods, which can be accelerated by using dimming ballasts in a system that can also include occupancy sensors, daylight sensors and time clocks.
- ▶ Higher worker comfort, satisfaction and performance, achieved by allowing occupants to choose light levels based on their particular needs and preferences.
- ▶ Increased lamp life for applications where lamps can be dimmed instead of frequently switched.

Cristal Controls offers an advanced lighting control and dimming solution that is as sophisticated as it is simple to operate::

- ▶ 0-10 Vdc Inputs for 0-10 Vdc potentiometer or 0-10 Vdc Lux sensor
- ▶ 0-10 Vdc output (zone) can control up to 40 (0-10vdc Ballast)
- ▶ Panel capacity of 8, 16, 24, 32 and 48 outputs
- ▶ Factory assembled panel under CSA and UL standards
- ▶ Network capabilities
- ▶ Distributed or panels assembly



## Dimming

Low-Voltage Dimming Control Systems

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### Photocells

Photocells model upon applications:

- ▶ Indoor space
- ▶ Atrium
- ▶ Outdoor

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LUX S-DAN

Indoor ceiling Lux sensor (available for outdoor application)

**Features:**

Can be set from 3 to 6000fc using CCLK controller or Jasper Building Control



DHAP  
DHSP  
Atrium  
Skylight

DHAP	Atrium	2 fc.	1 000 fc.
DHSP	Skylight	10 fc.	5 000 fc.

Can using CCLK controller or Jasper Building Control

**Features:**

Can be set from 3 to 6000fc using CCLK controller or Jasper Building Control