

LOW VOLTAGE LIGHTING CONTROL SYSTEM

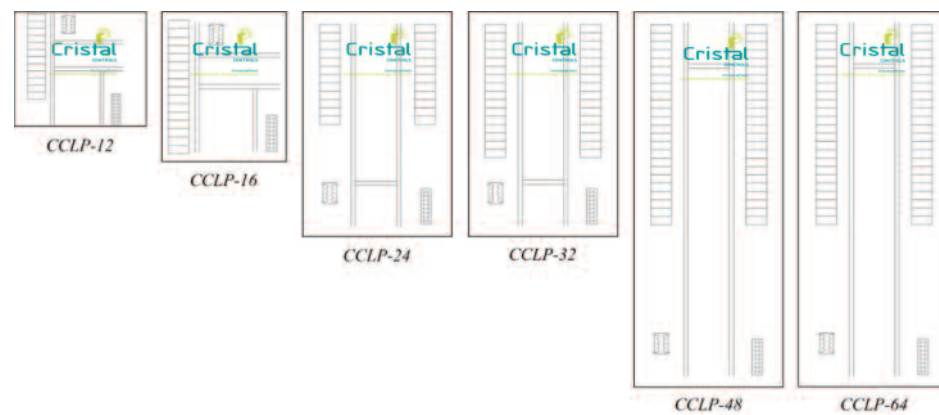


- ① Cristal Controls low voltage lighting control system c/w scheduler and network integration interfaces
- ② Cristal Controls CCLK1004 time clock+analog photocel
- ③ Light sensor (outdoor, atrium)
- ④ Wall switches
- ⑤ Indoor light sensor
- ⑥ Motion sensor
- ⑦ Electrical distribution panel
- ⑧ JASPER a web base software
- ⑨ DALI Ballast or 0-10 Vdc ballast

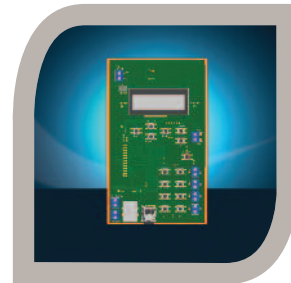
Networks protocols compatibilities

- Lonwork's
Lonwork's profile No.3401, 3200, 3050 version 3.5 or more recent.
- BACnet:
IP- MSTP
- DALI or 0-10 Vdc
- DMX
- Modbus
- Others

Standard relay panels



Capacity	4 & 8	12	16	24	32	48	64
Dimensions	20" x 16" x 4,62"	24" x 20" x 4,62"	36" x 24" x 4,62"	60" x 24" x 4,62"			



CCLK1004



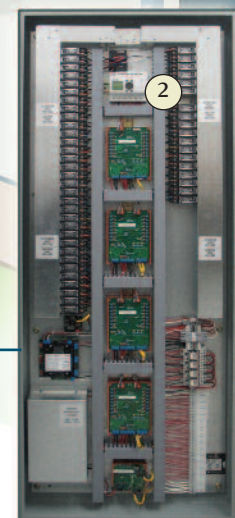
CC-Lon



CC-Bacnet (IP or MSTP)



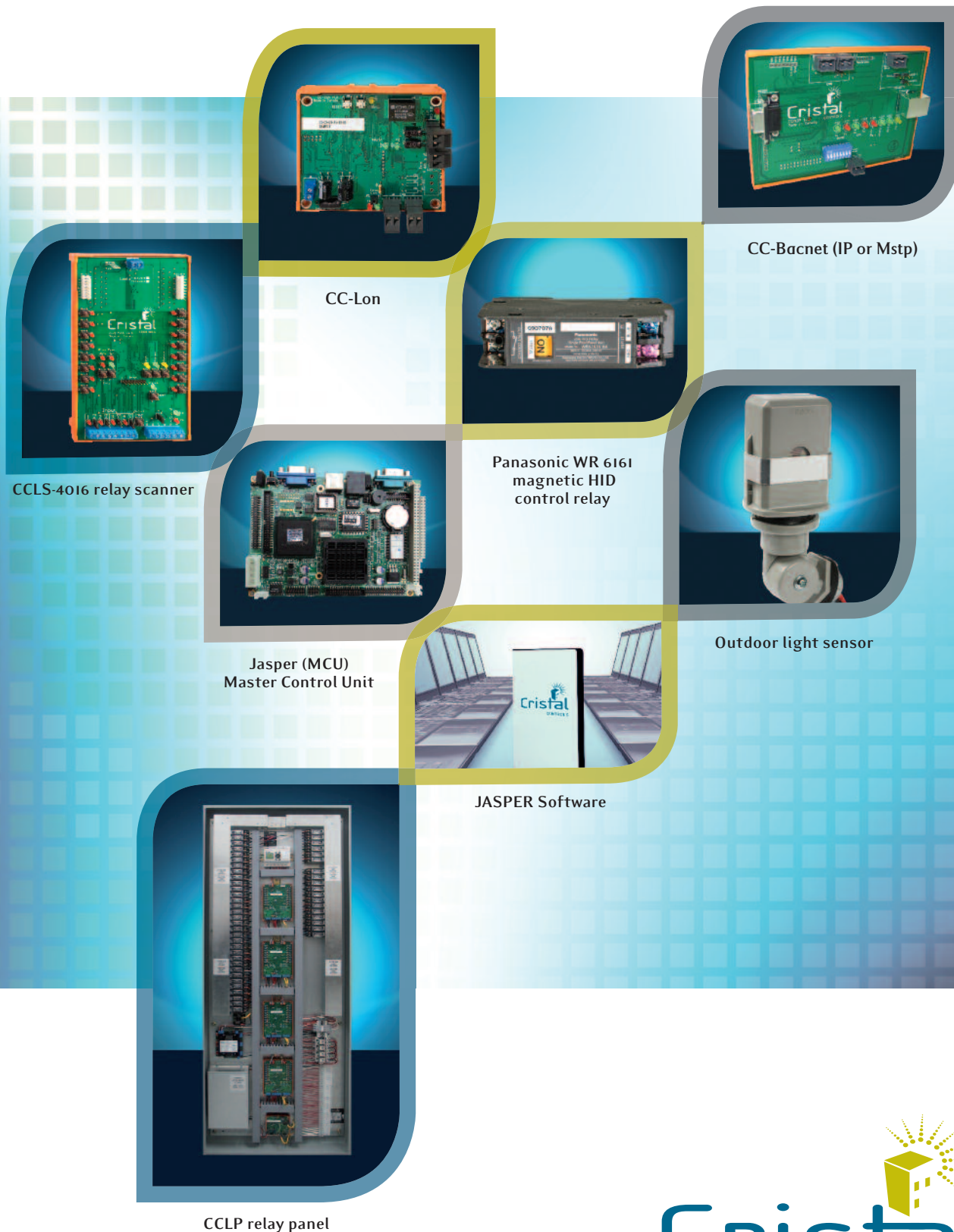
Ethernet Internet



Floor plan

CRISTAL CONTROLS

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Components



Easy-to-use scanner: CCLS-4016

Cristal Controls' CCLS-4016 programmable relay scanner has 16 outputs and 4 inputs. The inputs are configurable to respond to Panasonic 2-wire switches, to 24 Vac contact control, or to NO, NC and DC signals (with or without status feedback). Each 4 inputs can easily be programmed with the buttons on the scanner to control any or all of the relay outputs. If an input is configured for the Panasonic 2-wire LED switch, the input is providing the correct group status indication to the connected switch.



Reliable switching relay : WR-6161

The WR-6161 is a magnetic latching relay. When it receives a momentary polarized pulse from a two-wire relay control system, it provides a permanent On/Off control of lighting and other electrical loads. Its state remains until the coil is re-magnetized.

➔ **Low voltage cost-cutting system**

- Cut your lighting bill by half
- Control lights remotely with Explorer, safari or other
- BACnet, and DMX compatible
- For any type of building, whether new or existing
- Integrate with DALI

➔ **Cristal Controls Jasper Software also manage the following actions:**

- Peak control systems
- Energy management systems
- Monitoring systems



Printed in Canada



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