NEXLIGHT

2-WIRE
CONTROL SYSTEMS

Nexlight Delivers

Complete Solutions

The NexLight Solution

Whether it's custom residential lighting or scalable office solutions, NexLight provides low-voltage lighting systems for every need. Offices, schools, industrial facilities, sports arenas. You name it, we light it with maximum ease, flexibility, and cost-effectiveness.
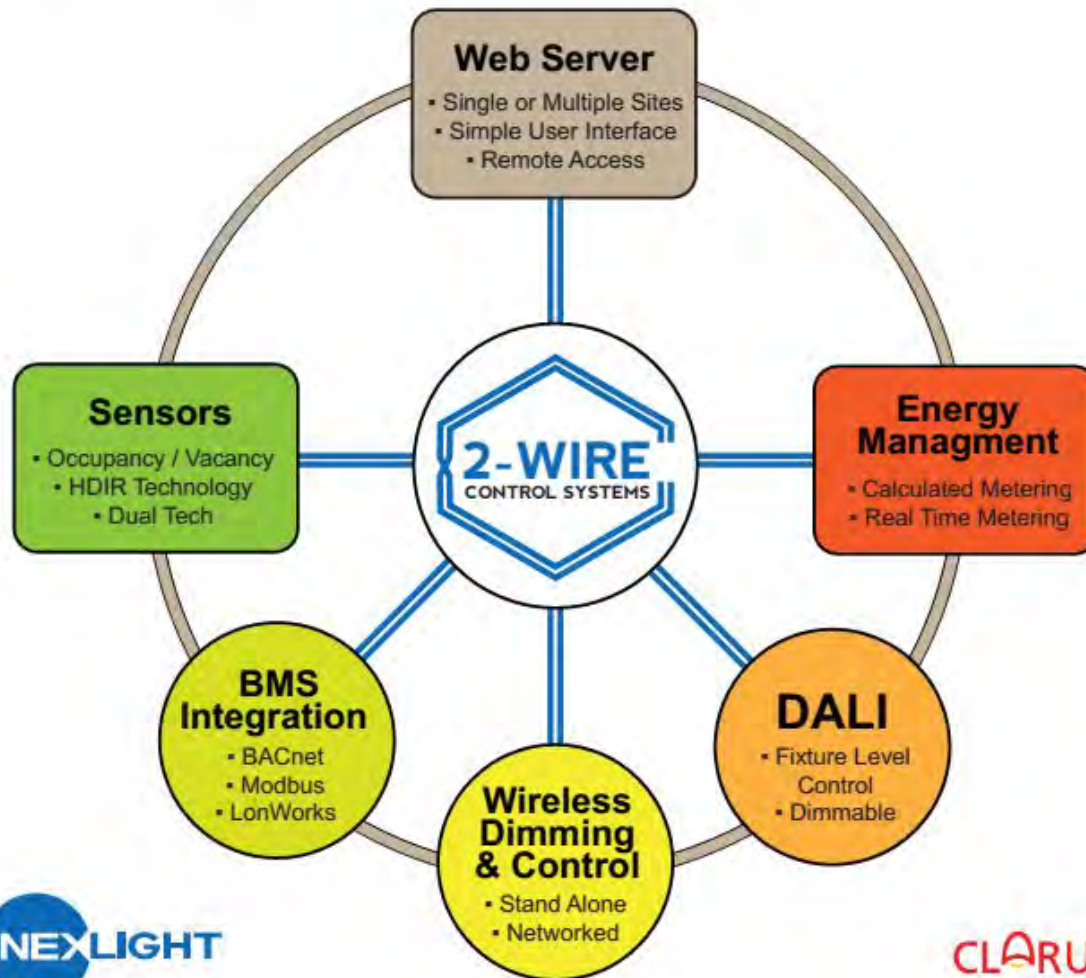
NexLight Business Solutions

2-WIRE CONTROL SYSTEMS

NexLight is Simple. Reliable. Flexible.

NexLight is Value.

NexLight is Designed to Fit Your Building.

NEXLIGHT

NEXLIGHT IS SIMPLE. RELIABLE. FLEXIBLE.

NexLight has been implementing design built lighting control systems tailored to meet specific needs of large and complex commercial and industrial facilities for more than 25 years.

Our **worldwide reputation for 100% reliability** controlling high inrush loads in critical environments is one that no other controls manufacturer can match. Years after initial installation, when new technologies are available, modifying and upgrading the system is simple and fast and all with the lowest installed cost.

2-WIRE CONTROL SYSTEMS

NEXLIGHT IS VALUE.

A leader in energy reduction, NexLight Control systems save an average of 30-60% in building electrical energy costs. Used frequently in LEED building projects, energy savings begin the day of system activation and continue for the life of the building.

Schools, university campuses, hospitals, federal buildings, airports, warehouses, office parks, correctional & manufacturing facilities are all ideal applications for our system, improving living and working environments for building occupants.
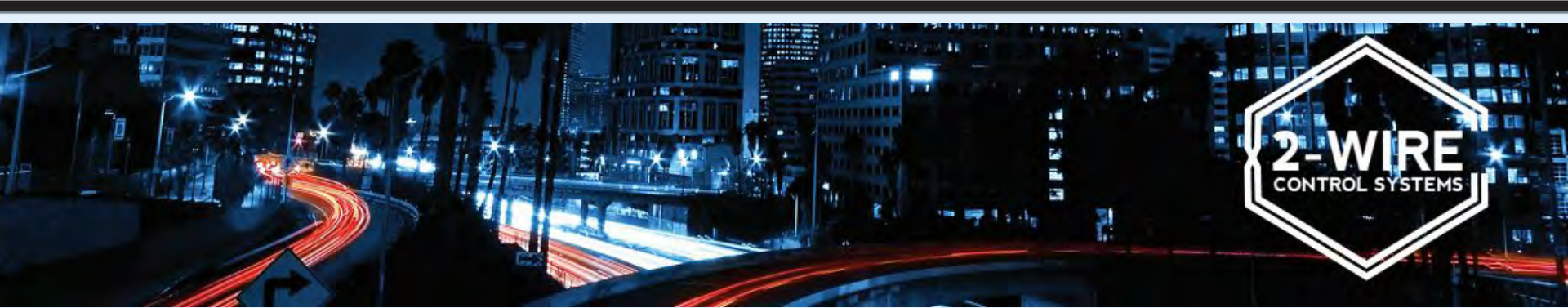
NEXLIGHT

NEXLIGHT IS DESIGNED TO FIT YOUR BUILDING.

Unlike other lighting control manufacturers, NexLight control systems are designed to fit the specific requirements of each building project. Our difference is delivering reliable systems that meet today's higher energy standards while providing the flexibility to grow with future facility needs.

With thousands of installations around the U.S.A. and abroad, NexLight continues to lead in design built solutions for buildings requiring the highest level of reliability, even in the harshest conditions.

Design built solutions

- Distributed system design has become easier with the development of more devices that operate off the 2-Wire communications bus without the need of additional power sources.

- Nexlight's occupancy sensor easily integrates with a building lighting control system.

- The NexLight 2-Wire system is simple to design, flexible to install and reliable to outlast all other lighting control manufacturers.

No one makes it easier.
"Just Send Us the Plans"

Energy Code Compliance

THE NEXLIGHT DIFFERENCE

Simple

Connect Unlimited Switches with 2-Wires
-No pulling additional wire
-No thick conduit
-Add or remove switches in seconds
-Eliminates traditional wiring problems

Each System Control Unit With 2-Wires
-256 Individual Addresses
-127 fully customizable groups
-72 fully customizable patterns (scenes)
-Expand systems using multiple SCU's
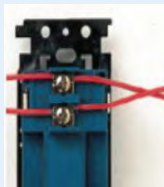
With NexLight there is no need to modify wiring to make changes in switch control. The wireless pro-gramming unit (WTR9600) works like a TV remote; Add or modify switch functions in seconds.

Flexible

All system-wiring connections are two signal wires. The wires are non-polarized, free topology minimizing the chance of installation errors.

Reliable

Extremely reliable components

Customer Support & Onsite Service

MADE IN U.S.A PRODUCT

The Only Lighting Control System Designed & Built to Last a Lifetime

2-WIRE CONTROL SYSTEMS

Worlds Best "Total System Solution" NexLight Delivers the Complete Package

System components connect on the 2-Wire Bus*

Line Voltage Run From Breaker Panel to Relays

Master Relay Panel

Switches
(Wall, Master, Card, Tamper Resistant, HD, LCD Touch, Wireless)

Sensors
(Occupancy, Daylight)

NETWORK PANEL

Additional Panels
(Auxiliary, Dimming, Mini, Network, Wall Saver)

*2-Wire Bus: 16 gauge unshielded, untwisted pair (Belden 6200UE) or equal with no additional connectors- Link unlimited number of relay panels, low voltage switches, sensors and other accessories in any order, any distance. Free topology and non-polarized system architecture makes wiring easy and greatly reduces cost.

NEXLIGHT

TOTAL CONTROL WITH THE PUSH OF A BUTTON

Always Flexible

Any switch may be configured for Individual, Group or Pattern control. LEDs at all switches show true status of the load. Additionally, switch programming can be easily adjusted in seconds without removal from its mounting location. See programming guide for more details.
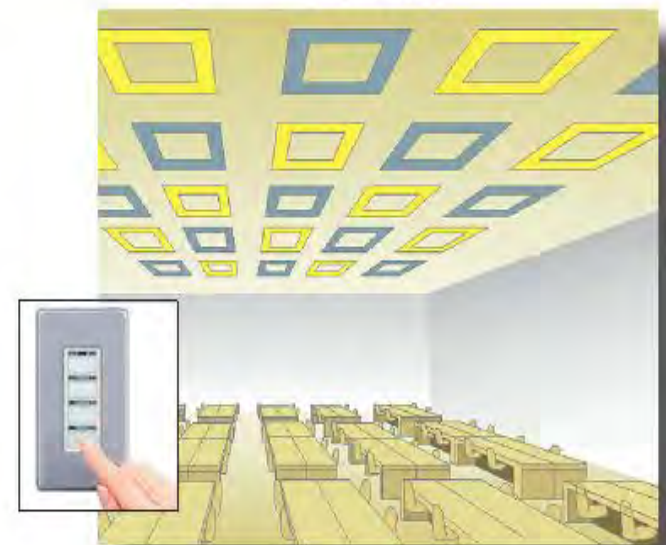
Individual

Group

Pattern

NEXLIGHT

360° Support: Every NexLight system includes the lifetime 360° support program, ensuring a fully operational control system for the life of the building. The quality of NexLight commercial and industrial systems are unmatched in the industry, it provides us the confidence to back all our systems with lifetime service and support. Its no wonder why NexLight is number one for customer service.

360° Customer Support Program

PRE-BUILD:
- Design Build Quotes
- Custom Panel Assembly
- On site in as little as 3 weeks

INSTALLATION:
- Free Phone Support
- "Direct-dial" speak with a NexLight system expert immediately
- 5-year Product Guarantee

FOLLOW-UP SUPPORT:
- On-site commissioning
- On-site system training
- Phone support with NL expert available for system support and troubleshooting

THE 2-WIRE SYSTEM

TCP/IP

Embedded Web Server

System Network Unit

System Interface Unit

2-WIRE BUS NETWORK

System Control Unit

Astronomical Time Clock

RELAY ON/OFF CONTROL

Centralized Control for
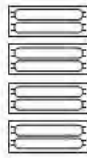LED / FLUORESCENT / INCANDESCENT
PLUG LOAD / MOTOR / OTHER LOADS

20A HID RELAYS
120/277/480VAC

RELAY
CONTROLLER
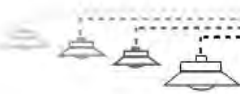**8 Output**

10AMP(4) CONTROL

Distributed Control for
LED / FLUORESCENT / INCANDESCENT
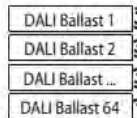MOTOR / OTHER LOADS

4 PACK RELAY
W/CONTROLLER

Digital Switch

DIMMING CONTROL

Dimming Control for
LED / FLUORESCENT
Other 0-10V Signals

0-10V DIMMER
UNITS 1&4
CHANNEL

INPUT DEVICES

DALI CONTROL

DALI Control for designated areas
using DALI ballasts interface with
2-Wire system

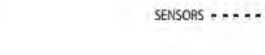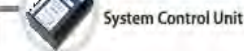| DALI Ballast 1 |
| DALI Ballast 2 |
| DALI Ballast ... |
| DALI Ballast 64 |

DALI Gateway

OCCUPANCY
SENSORS

DAYLIGHT
SENSORS

CONTACT INPUTS

Integrate communications from any
number of 3rd party devices to the
2-Wire system using dry contact inputs

SECURITY SYSTEM
EMS
BMS
SENSORS

CONTACT
INPUT (4)

SENSORS

CONTACT
INPUT (1) TINY

2-WIRE
CONTROL SYSTEMS

**2-Wire BUS
to ZigBee**

Unit

**Zigbee
2-Wire
Switch**

**Panel
Mounted
Gateway**

**LED lighting
Systems**

**ZigBee
Program
Screen**

**ZigBee
Standalone
Switch**

ZIGBEE WIRELESS

ZigBee®
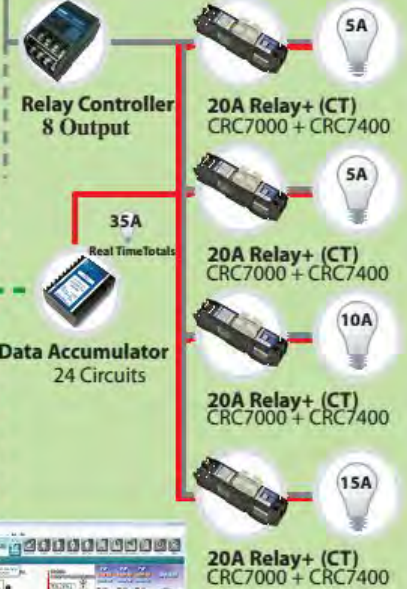
**Relay Controller
8 Output**

20A Relay+ (CT)
CRC7000 + CRC7400

5A

5A

35A
Real TimeTotals

20A Relay+ (CT)
CRC7000 + CRC7400

10A

**Data Accumulator
24 Circuits**

20A Relay+ (CT)
CRC7000 + CRC7400

15A

20A Relay+ (CT)
CRC7000 + CRC7400

Web Based Monitor & Control
Embedded WEb Server CRC 1605

METERING

**Circuit Level
METERING**

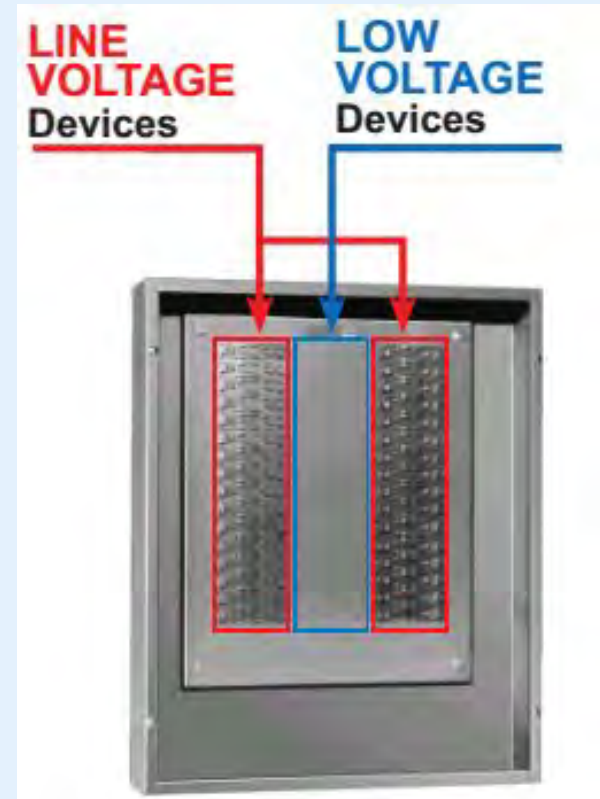**All New 5th Generation System Products**

BUILDING A SYSTEM

EASY AS 1 2 3

① Fixture Control:

> Choose Relays / Dimmers

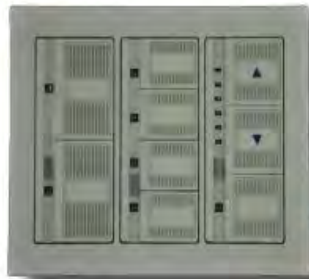> # of Spaces (X-Points) required for Relays / Dimmers dictates the panel size to be used.

LINE VOLTAGE Devices
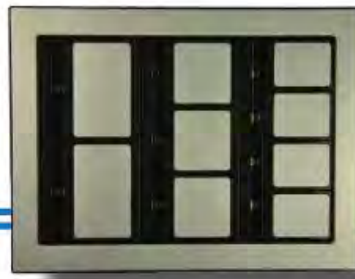
LOW VOLTAGE Devices

NEXLIGHT

2 Select Local Control

> Low Voltage Switches

OPTIMA/DESIGNER SERIES   **ARCHITECT/GLACIER SERIES**   **SPECIALTY SWITCHES**   **TOUCH SCREEN**

> Occupancy & Daylight Sensors

OCCUPANCY SENSORS   **DAYLIGHT SENSORS**   **CONTACT INPUT**   **NON-2-WIRE DEVICES**
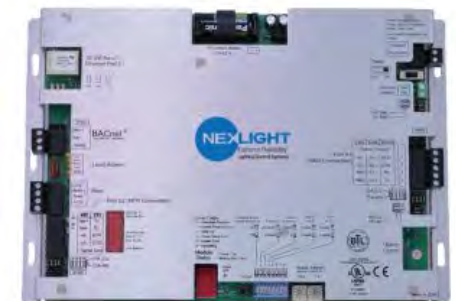
NEXLIGHT

3 Add Front End Control

ASTRO TIME CLOCK

WEB SERVER

BUILDING MANAGEMENT BMS

NEXLIGHT

INSIDE THE PANEL:

Primary Components

20A HID Relays:
Single Pole (SPST) 120/277/347 VAC
Double Pole (DPST) 120/277/347 VAC
Double Pole 480 VAC

Terminal Block Connectors:
Secure connection points for Line Voltage to power panel (left) and 2-Wire Low Voltage Bus (right)

Power Supply:
120/240/277/480 VAC

* Finger-safe barrier attachment available (not pictured)

Primary Components

Relay Controller:
Programmed with unique digital relay addresses

Astronomical Time Clock:
365-day astro clock. Access and program system functions. Only one Time Clock needed per system

Transmission Unit:
Control up to 256 relays per Transmission Unit. Also stores building specific lighting groups and patterns. Add additional Transmission Units for unlimited system size

Optima Series

Occupancy Sensors

Daylight Sensors

Architect Series

Contact Input Tiny

Touch Series

Key Lock Series

Tamper Resistant Series

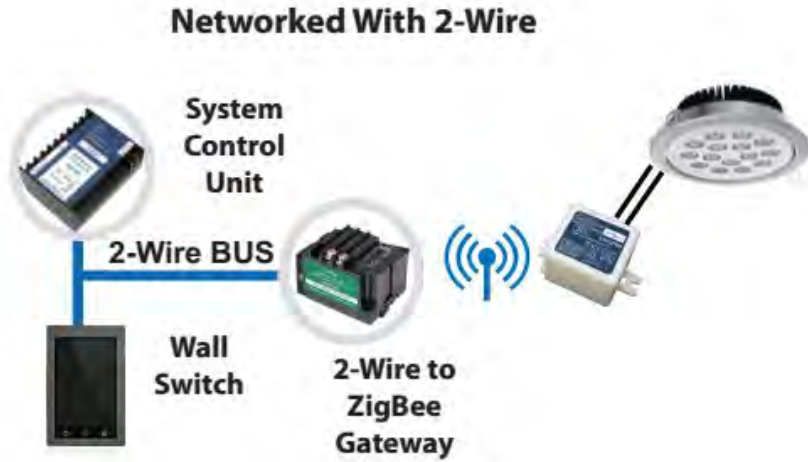NEXLIGHT

Wireless Control Is Here
How it works:

Each light fixture or zone is outfitted with a ZigBee Dimming Transceiver which provides 0-10V dimming and ON/OFF control to the fixture or zone. The device sends and receives communication to the LCD touch Switch and/or ZigBee Gateway Units allowing for control of ZigBee devices in either a stand-alone or 2-Wire system architecture.

LCD Touch Switch
(2-Wire to ZigBee Gateway)

LCD Touch Switch
(Standalone ZigBee)

2-Wire to ZigBee Gateway

Stand-Alone Wireless Control

ZigBee Dimming Transceiver
(installs in or near fixtures)

Networked With 2-Wire

System Control Unit

2-Wire BUS

Wall Switch

2-Wire to ZigBee Gateway

LCD Touch Screen

Wireless ZigBee Setting Unit

NEXLIGHT

2-Wire + ZigBee System Integration

AIRPORTS

OFFICE COMPLEX

UNIVERSITIES/SCHOOLS

HOSPITALITY

SPORTS COMPLEXES

PARKING LOTS/RAMPS

CORRECTIONAL FACILITIES

WAREHOUSE/INDUSTRIAL

The Only Lighting Control System Designed and Built to Last a Lifetime

NEXLIGHT
Extreme Reliability™
Lighting Control Systems

NEXLIGHT

2-WIRE
CONTROL SYSTEMS