Powerlink™ NF3500G4 Controllers

The Powerlink™ G4 Intelligent Lighting Panels provide a simple, cost-effective and energy code-compliant way to control branch lighting circuits from a standard panelboard. The Powerlink G4 systems feature a powerful microprocessor based controller that performs the necessary communications and logic functions to achieve branch circuit control of lighting in commercial, institutional and industrial buildings.

The 3500 level controller includes an embedded web server for remote access without dedicated software and utilizes the connectivity of the Internet to achieve a fully web-enabled lighting control system. Automated alarms notify users via email when pre-defined events occur, such as tripped circuit breakers.

> Features

- Embedded web server with customizable web pages.
- Web Services supported to provide Control and Status Monitoring.
- Automated email alarms.
- Stand-alone lighting control system, meets ASHRAE 90.1 and CA Title 24 requirements.
- 16 hard-wired inputs available for connection to devices with physical dry-contacts (4 Analog Input terminals, each can be configured to 0-5v, 0-10v, or 4-20ma.).
- 256 communication inputs available for network connection.

Powerlink™ NF3500G4 Controller

- 64 independent time schedules, each can be configured into 100 distinct periods.
- 7-day repeating clock, with changeable automatic daylight savings time.
- Automatic sunrise/sunset tracking with offsets.
- 96 special event periods with 14 pre-programmed holidays.
- 128 remote sources for sharing terminal/input status, time schedules, breaker or zone status between controllers.
- Full custom logic capabilities, including full Boolean functions and synchronization services.
- RS-232 and RS-485.
- Ethernet 100BaseT.
- Serial communications using Modbus® ASCII/RTU, BACnet MS/TP, C-Bus and DMX512 protocols.
- Ethernet communications using Modbus TCP and BACnet/IP protocols.
- UL® Listed.

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Features

INPUT TERMINALS*	
2-wire	16
2-wire with status feedback**	8
3-wire	8
Analog	4
INPUT TYPES	
2-wire normally open (NO) or normally closed (NC)	
2-wire NO or NC, w/auto blink notification	
2-wire maintained toggle	
2-wire momentary toggle	
2-wire momentary ON or momentary OFF	
3-wire momentary	
Input timers (1 sec - 18 hr)	
Input synchronization	
Sentry Switch support	
ON delay/OFF delay	
0-5V (Analog)	
0-10V (Analog)	
4-20mA (Analog)	
TIME SCHEDULER	
Independent schedules	64
ON-OFF periods/schedule	999
Special event/holiday periods	64
7-day 24-hr repeating schedule	
Automatic daylight savings	
Sunrise/sunset with offsets	
Network time sync (TCP connection required)	
NETWORK VARIABLES	
Communications inputs (net. accessible)	256
Remote sources (per controller)	128
Maximum subscriptions	256
ZONES	
Maximum number	256
Maximum number of sources per zone	4
Max. number of remotely operated circuit breakers (per subnet)	168
Configurable source logic	
Blink notice	
ON-time / OFF-time / Delay-OFF	
NETWORKING	
RS-232 port	
RS-485 port	
Ethernet (100BaseT port)	
PROTOCOLS	
Modbus ASCII/RTU, Modbus TCP	
BACnet/IP, BACnet MS/TP	
DMX512	
C-Bus	
FRONT PANEL	
Backlit LCD display	
Password or front panel disable	
MEMORY	
Non-volatile memory - programs and configuration	
Flash memory for firmware upgrade	
VIEWING OPTIONS	
Event log	
Breaker Strike Counter and Breaker ON-time	
Alarm viewing via Event Log	
Alarm viewing via e-mail	
Web-based set up, control, and status monitoring	

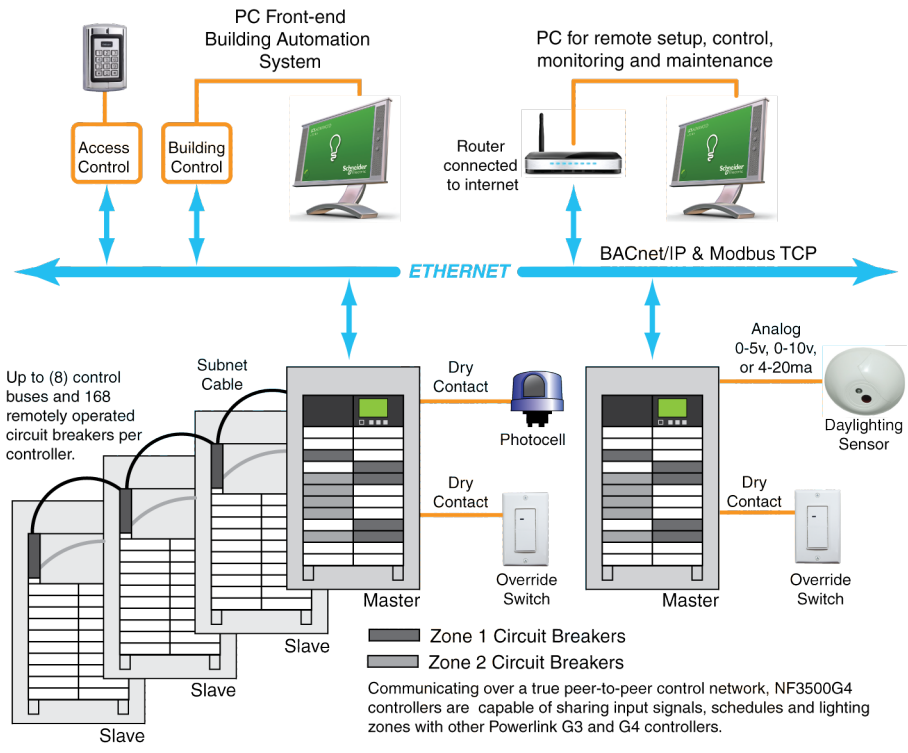
*Terminals accept 24-18 AWG conductors
** 7.5 mA maximum load per input terminal

SPECIFICATIONS

Powerlink 3500G4 Controller	
Operating Environment (external panelboard ambient)	Temp.: 23°F to 104°F (-5°C to 40°C) RH: 95%, noncondensing
Storage Environment	Temp.: -4°F to 185°F (-20°C to 85°C) RH: 95%, noncondensing
Standards	UL Listed 916, Energy Management Equip. FCC: Part 15, Class A NEC: Class 1 and Class 2 Control Circuits ESD Immunity: IEC 1000, level 4 RF Susceptibility: IEC 1000, level 3 Electrical Fast Transient Susceptibility: IEC 1000, level 3 Electrical Surge Susceptibility: IEC 1000, level 4 (power line) Electrical Fast Transient Susceptibility: IEC 1000, level 3 (interconnection lines)

Ordering

Description	Catalog Number
Powerlink NF3500G4 Controller	NF3500G4



Typical Powerlink NF3500G4 Network Diagram

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