ETAP
EXCELLENT LIGHTING, SAVING ENERGY

GREENBUS™

The Excellum GreenBus™ communication technology is a bus system designed specifically for controlling lighting to achieve maximum energy savings and optimum lighting comfort. GreenBus™ allows the individual control of thousands of luminaires in a building. Moreover it integrates also peripheral devices such as presence detectors, light sensors, relay-based controls, switch packs and (low voltage) wall controls into a fully programmable lighting control system.

GreenBus™ provides low voltage power to all switching or control devices on the network, eliminating the need for external power supplies and power packs. Installation work for line voltage wiring and conduit is eliminated.

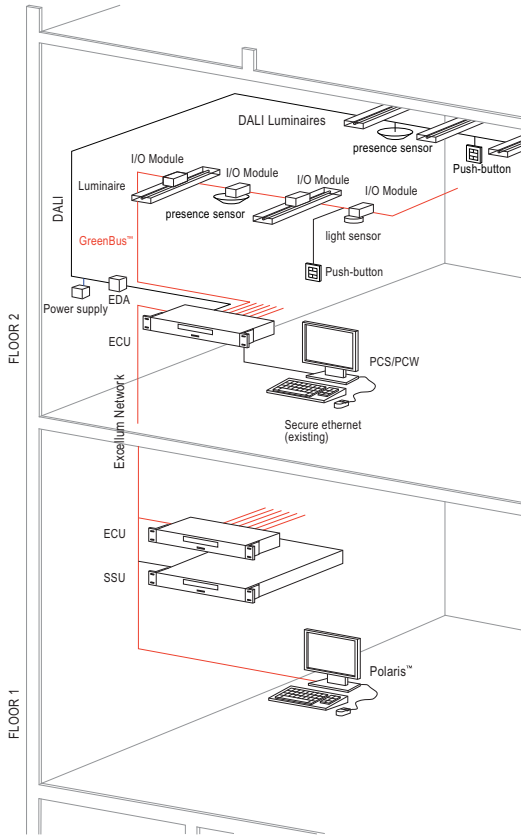
Using RS485, one of the industry's most reliable communication buses, GreenBus™ allows flexible daisy chain wiring topologies and the ability to add luminaires or control devices in-circuit at any time. All devices may be connected randomly on the network and special termination of the line is not required. Automatic addressing of individual nodes during system commissioning simplifies installation by eliminating the need to pre-address or configure luminaires or to observe a specific installation sequence, i.e. luminaires may be identical to each other.

GREENBUS™ cable

The GreenBus™ communication network is created using prefabricated category 3 network cables with "click and go" connectors.

Standard, prefabricated lengths speed up installation by installers by eliminating on-site cable cutting and crimping. General or specific GreenBus™ layout assistance is available from ETAP technical support.

Component of this data sheet is indicated in red.



Excellum

Each component is easily integrated into the Excellum control system

Each luminaire, sensor and lighting controller is daisy-chained back to the ECU using prefabricated 'click & go'-GreenBus™ communication cabling or via DALI. ECU's typically control individual floors and are linked via an Ethernet network. A LAN connection allows Windows floor plan based control software to be operated anywhere on the network.

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C2A01

C2A02

C2A03

Technical specifications

Cross section AWG24
Cat. 3 or. Cat. 5 UTP communication cable
Connects the 24 supply voltage and data communication from the ECU to the I/O modules
Typical number of nodes per line 75

Order codes and available versions

Greenbus™ cable on roll 500 m	C2A00/0
Greenbus™ cable 1 m with 2 RJ45 connectors	C2A00/1-01
Greenbus™ cable 2 m with 2 RJ45 connectors	C2A00/1-02
Greenbus™ cable 3 m with 2 RJ45 connectors	C2A00/1-03
Greenbus™ cable 5 m with 2 RJ45 connectors	C2A00/1-05
Greenbus™ cable 10 m with 2 RJ45 connectors	C2A00/1-10
Connector RJ45 suitable for cable C2A00/0	C2A01
T distribution block 3xRJ45 bus	C2A02
Branch 2xRJ45 bus to 1 x 4p connection block	C2A03

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