



*“Solutions For Your Industry”*

Contact Anthony Folino for a free consultation

P: (03) 8353 2744

M: 0488 500 139

E: [info@acfelectricalsolutions.com.au](mailto:info@acfelectricalsolutions.com.au)

W: [www.acfelectricalsolutions.com.au](http://www.acfelectricalsolutions.com.au)



## THE FUTURE OF BUILDING & LIGHTING CONTROL

In recent years there has been a significant shift in the demand for more 'green buildings' which has resulted in a focus on energy efficiency and ensured that a good return on investment is seen as the priority.

The concept of these 'green buildings' is based on sustainable, energy efficient construction and building use, which can be realised with intelligent building and lighting control.

ACF Electrical Solutions provides high tech automation solutions that balance the need for comprehensive lighting with the pursuit of energy sustainability.

Our range of lighting solutions can be complemented by our building automation capability to deliver high quality, leading edge intelligent control systems.



# TECHNOLOGY



ACF Electrical Solutions incorporates the latest products from global leading edge product manufacturers ABB and Beckhoff. Utilising the latest technology allows us to deliver future expandability, open architecture and ease of integration with existing systems for our clients.

## ABB

ABB i-bus® KNX is based on the simple and proven KNX technology ([www.knx.org](http://www.knx.org)) which is accepted as the world's first open Standard for the control of all types of intelligent buildings – industrial, commercial or residential.

With the ABB –bus® KNX system, the buildings occupied are easier to manage and control, resulting in increased flexibility, security, economic efficiency and convenience. All the different functional subsystems within the building are integrated via a bus connection to a single communicating system. This enables the optimal, energy efficient interaction of the sub-systems, which is almost impossible with conventional technology.

The ABB i-bus® KNX product range includes components covering the complete spectrum of applications found in today's buildings. With an impressive spectrum of products for the control, measurement, regulation and automation of lighting, ABB i-bus® EIB / KNX can perform challenging lighting tasks. ABB also provide European designer range of human interface products such as switches, sensors and touch screens for optimal aesthetic value.



## BECKHOFF

PC-based control technology from Beckhoff Automation has been used successfully for almost three decades in all areas of industrial automation. The technology has become an integral part of intelligent building lighting control. Beckhoff Australia offers a universal, scalable building automation system covering PC and Ethernet based controllers and a modular I/O system for logging all data points in buildings.

The PC and Ethernet based control solution is extremely well suited for building technology, due to its open interface based on IT and Windows standards. With the resolute application of Ethernet from the sensor/actuator level via the PC level to the management level, all building users share a common data network.

Beckhoff's control technology enables all building functions and function changes to be realised based on software. This means maximum flexibility and low engineering costs. The comprehensive TwinCAT building libraries cover all main building functions. The Beckhoff Bus Terminal system for connection of data points features 300 different I/O terminals and supports all common sensors and actuators.



## ACF ELECTRICAL SOLUTIONS APPROACH

### REVIEW

- Review client's current methods, listen to their needs and discuss their requirements

### ASSESSMENT

- Assess client's applications with view to recommending and providing an improved, cost effective solution

### DESIGN

- Engineer the required solutions, fulfilling all customer requirements

### MANUFACTURE

- Manufacture the solution using factory and site testing

### INSTALLATION

- Installation in agreed timeframe

### COMMISSION

- On site Commissioning, ensuring the project becomes operational on schedule, within budget and with minimal interruption to production.

### ONGOING SUPPORT

- We offer 24 hour breakdown service, 7 days a week