

# MLS High Level Interface Unit MLSUCA mk2-JACE

The MLSUCA mk2-JACE is an embedded controller/ web-page server for remote monitoring and control of Ex-Or Digital Managed Lighting Systems, (MLS). It also has the capability of presenting its status information and receiving commands in BACnet protocol form.

## Application

As a controller/web-page server exclusively for the Ex-Or MLS it is able to control and display up to 700 lighting zones spread over a number of Ex-Or RB2000/ MLS Bus served areas of a building or campus. With the inclusion of the BACnet capability it is able to serve 450 lighting zones.

For the lighting control and lighting status display application the MLSUCA mk2-JACE takes the role of Bus Master on the RS485 Spine that can link a number of RB2000s. Each RB2000 drives an MLS Bus capable of supporting up to 100 separate lighting zones comprised of up to 200 individual presence detectors with photocells.

### **Control Features**

Control functions in the lighting application can be either pre-programmed actions governed by an onboard time-of-day clock or manual interventions delivered via the supported web-page from any conetworked Personal Computer running a web-browser. With the BACnet capability installed real-time control actions can also be initiated by remote BMS devices.

Conversely via the BACnet protocols information gathered by the lighting system's detectors, typically occupancy data, can be passed to other BMS disciplines.

### Installation & Connection

The MLSUCA mk2-JACE should be positioned in a readily accessible location, usually adjacent to the mains distribution board for the area being controlled. A fused 3A, 230 volt mains supply is required which should be dedicated to the MLSUCA mk2-JACE for maximum reliability.



### Connecting the MLSUCA mk2-JACE

The MLSUCA mk2-JACE is connected to the MLS via a 'spine' or 'backbone'. The spine should be wired using 24AWG two twisted pair, screened communications cable, e.g. Belden 9502. Connection to the network is made via a straight-through CAT5e patch lead to the onboard RJ45 socket.

### Example wiring of system



