

Application **Guide**

The Ex-Or **CONNECT** Range

Quick connection systems

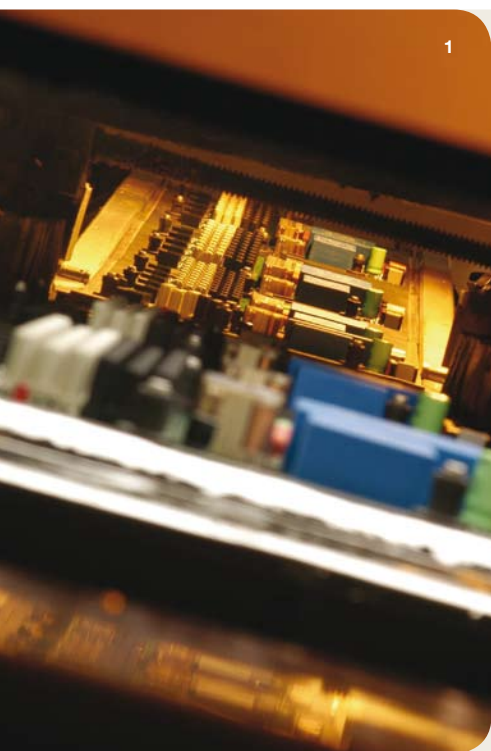


Connect with technology

As designers and manufacturers of all types of lighting management systems, simplicity and ease of use has been our mantra at Ex-Or since the company was set up in 1984.

It is vital for us that our systems operate totally reliably, requiring the minimum of input from the end user. To achieve this, not only must the equipment itself perform faultlessly, it must be simple to install to ensure it performs exactly as designed.

Ex-Or's dedication to making life easy for the installer and contractor led us to develop CONNECT - a range of purpose-designed connection centres – to provide plug-in simplicity for lighting control and luminaire installations.



1
The CONNECT range is manufactured in the UK to the highest standards at our own specialised surface-mount electronics assembly plant.

Simplifying the installation process

The use of connection centres (also known as Lighting Connection Modules or LCMs) has gained widespread acceptance over recent years; indeed it has become the industry standard for lighting installations.

As a contractor's entire installation team cannot be expected to possess specialist knowledge of lighting management systems, the desirability of simplifying the installation process is obvious. CONNECT provides the ideal solution.

Using CONNECT requires a minimum of electrical expertise as luminaires and detectors are delivered to site pre-wired. The plug-and-socket system removes the possibility of wiring errors, virtually eliminating the need for contractors or installers to return to site for expensive 'snagging' procedures. Indeed, the whole installation process is speeded up, cutting contract times and allowing buildings to be occupied within a shorter time-frame.

Flexibility for the future

The benefits are not confined to the initial installation process either. If, at some later date, the lighting requirements change, it is a simple matter to un-plug the luminaires or detectors and to change or re-position them. The intrinsic flexibility of the plug-in connection method means that occupants no longer need put up with a less than ideal lighting configuration just because wiring alterations are considered too expensive or disruptive.

Comprehensive range

The CONNECT range offers varying degrees of sophistication via MLS CONNECT Digital, CONNECT Lite and CONNECT UltraLite.

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Rapid change of ceiling and luminaires together with installation of MLS system was achieved at Northampton Borough Council's Cliftonville House using MLS CONNECT Digital.

3

CONNECT Lite was selected to speed up the wiring installation at five PFI schools in Exeter.

Emergency Lighting

All CONNECT products provide the facility to test emergency luminaires which may be plugged into the CD Boxes. Mains terminals are provided for live and separate maintained live. This enables testing of emergency luminaires via a key switch to be carried out.

In addition, MLS CONNECT Digital offers the alternative of routing the Ex-Or FailSafe emergency testing system via its CD Box.



CONNECT is an effective way to streamline installation and save costs

- Quicker and easier installation delivers time and cost savings.
- Contract times are cut and buildings can be occupied sooner.
- Wiring faults are eliminated as luminaires and detectors are delivered to site pre-wired.
- Time and expense can be saved on snagging procedures.
- Luminaires and detectors can be changed or re-positioned at any time without major disruption.
- Provision of testing for emergency lighting.



When used for lighting control installations, CONNECT qualifies for the Energy Technology List and therefore attracts Enhanced Capital Allowances

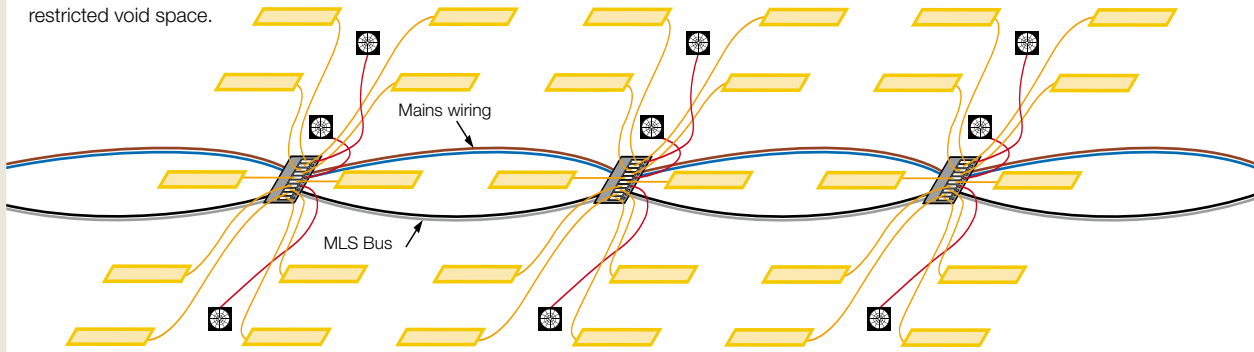


MLS CONNECT Digital

Lighting Connection and Management System

This state-of-the-art connection centre is specifically designed for use with the MLS Digital Managed Lighting System and can also incorporate FailSafe emergency lighting testing.

The purpose-designed CONNECT Digital Box (CD Box) features automatic 'device recognition' to provide a simple yet powerful control hierarchy without the need to manually alter settings. There are no DIL switches and a PC is not required to configure the system. The CD Box has 5 detector inputs, 5 switch inputs and 10 luminaire outlet sockets. Its slim profile makes it suitable for most applications – including many with restricted void space.



CONNECT Lite

CONNECT Lite

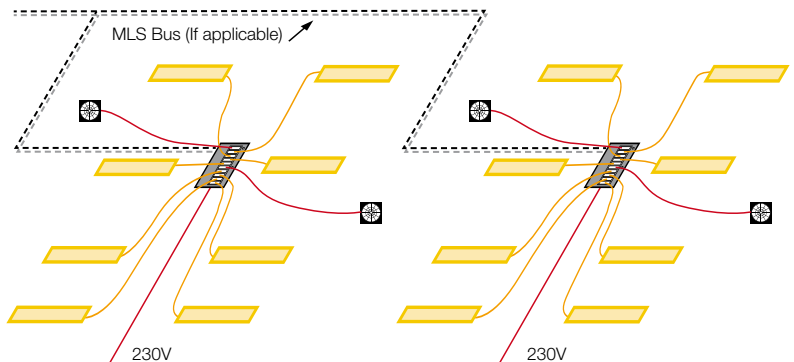
The CD Box Lite provides an efficient and cost-effective way of interconnecting presence detectors and luminaires using industry-standard connectors. This option also allows access to a number of the functions of the MLS Digital system.

Presence detection – one detector can control up to 9 luminaires, or two detectors up to 4 luminaires each.

Local switching only – luminaires may be switched via conventional on/off switches with one switch able to handle up to 10 luminaires, or two switches up to 5 luminaires each.

Luminaire Leads

Luminaire leads are fitted at one end with an industry-standard, 6-pin plug for connection to the CD Box. The other end is supplied stripped, ready for connection to the luminaire. Leads are available in various combinations of length and number of cores.



Emergency Lighting

Mains terminals are provided for live and separate maintained live. This enables testing of emergency luminaires via a key switch to be carried out.

MLS2000CDR CONNECT Digital Remote Detector



The MLS2000CDR is a high-performance, communicating presence detector associated with a group of luminaires. This dedicated detector offers all the functions of MLS Digital (including zone control, global commands and scene setting) communicated through the CD Box. For further details, see MLS Digital Application Guide.

Luminaire Leads

Luminaire leads are fitted at one end with an industry-standard, 6-pin plug for connection to the CD Box. The other end is supplied stripped, ready for connection to the luminaire. Leads are available in various combinations of length and number of cores.



Emergency Lighting

Mains terminals are provided for live and separate maintained live. This enables testing of emergency luminaires via a key switch to be carried out.

Patch Leads

Using standard RJ-type plugs, these leads are supplied pre-wired. They serve as an interface between the CD Box and dedicated detectors, or between multiple CD Boxes.



MLS Bus Connectors - Green FailSafe Bus Connectors - Red

These industry-standard leads complete with 2-pin plugs are available in a number of lengths.



CONNECT UltraLite

CONNECT UltraLite

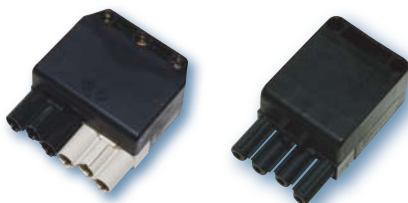
The CD Box UltraLite is a lower cost connection centre for the connection of luminaires to either presence detectors or conventional switches. It is available with ten 6-pole sockets for dimmable luminaires or ten 4-pole sockets for fixed output luminaires.

Presence detection – one detector can control up to 9 luminaires, or two detectors up to 4 luminaires each.

Local switching only – luminaires may be switched via conventional on/off switches with one switch able to handle up to 10 luminaires, or two switches up to 5 luminaires each.

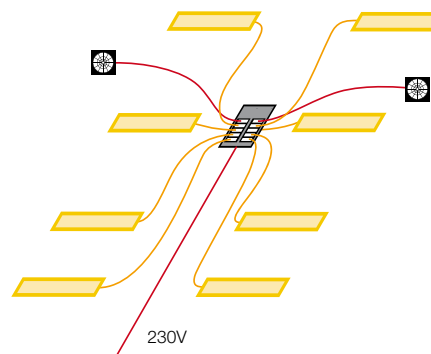
Luminaire Leads

Luminaire leads are fitted at one end with an industry-standard, 6-pin or 4-pin plug for connection to the CD Box. The other end is supplied stripped, ready for connection to the luminaire. Leads are available in various combinations of length and number of cores.



Emergency Lighting

Mains terminals are provided for live and separate maintained live. This enables testing of emergency luminaires via a key switch to be carried out.



CONNECT offers plug-in simplicity via a range of purpose-designed connection centres offering varying degrees of sophistication.

Benefits include:

- Quicker and easier installation for time and cost savings
- Elimination of wiring faults as pre-wired luminaires and detectors are delivered direct to site
- Flexibility as luminaires and detectors can be changed or re-positioned without major disruption

Ex-Or are Europe's leading manufacturer of presence detection lighting management systems. We offer passive infrared (PIR), ultrasonic and microwave products so that the correct system is supplied for every application. All can be installed using CONNECT products.

This Application Guide provides an introduction to the CONNECT range – please refer to technical data sheets and installation instructions for further technical information.

Complete Service

Ex-Or offers a complete support service from initial design to complete project management.

We can help you by:

- Visiting you to discuss your requirements
- Identifying areas where control systems will provide benefits
- Recommending the appropriate control systems
- Supplying, installing and commissioning your complete project

If you would like to see Ex-Or products in action, you're welcome to join us at Haydock for one of our regular seminars. Please ring for details.

All Ex-Or products are CE marked and manufactured to ISO9002 at our own specialised surface-mount assembly plant.



Reference No: A4009C

The Ex-Or range of Lighting Management Systems comprises:

MLS Digital

Managed Lighting System

CONNECT

Quick connection systems

FailSafe

Emergency lighting testing systems

LightSpot

Lighting control by presence detection and photocell

SceneSelect II

Scene-setting and dimming system

LooSpot

Washroom management by presence detection

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