

Ex-Or  
Novar ED&S  
Limited  
Haydock Lane  
Haydock  
Merseyside  
WA11 9UJ

MLS

## System Commissioning

### ***Commissioning / Operation:***

Please contact Ex-Or Contracts Department to arrange for commissioning of the MLS lighting control system. Prior to the commissioning visit the end user or contractor will be asked to provide Ex-Or with the required programming parameters.

### ***Work carried out at System Commissioning:***

Commissioning of the Ex-Or system should always be carried out by an engineer employed and trained by Ex-Or Novar ED&S Ltd. Various items need to be set-up correctly to ensure that system performs to the project specification and therefore commissioning should only be attempted by suitably qualified personnel.

The commissioning work includes:

- Bus test from RB2000 to include all MLS detectors and devices on each network and check that they all switch on and off.
- Check all communication events on the spine bus if applicable.
- Check detectors and any other device switch the correct luminaires (it is the contractors responsibility to check that the correct luminaires are plugged into the correct ports if CD Boxes are used)
- Check all dimming parameters of relevant detectors. ie compatibility with installed ballast and the operation, raise/lower and on/off.
- Diagnosis of any faults on the MLS system – Wiring and installation faults must be rectified by the installer before any further work can be carried out. Ex-Or engineer will advise the Installer on how to find a fault on the system.
- A full functional test of the system when all parameters issued to the Ex-Or engineer has been entered into the system.
- A site demonstration of the commissioned system will take place at the end of the commissioning process. If a specific date is required this would be subject to an extra charge.
- A completed Commissioning certificate will be provided detailing:
  - Site Address
  - System
  - Warranty Dates

**Note:** Certificate does not include any responsibility for scheme design,

## ***Fault Finding Information:***

### **Communication Error**

Devices on the system not communicating with each other.

- Check RB2000 (Bus power supply) has been connected to 230v supply
- Check activity light on Bus power supply is flashing green
- Check bus cable is connected into RB2000
- Check wiring for short or open circuits
- Check MLS Bus cable is an unscreened 1.5mm twisted pair wired in accordance with the Ex-Or application notes.

### **Luminaires do not respond to system**

The luminaire fails to light in response to system command

- Check lamp is fitted correctly into the lamp holder and twisted into the lamp holder fully
- Check detector has power to it
- Check all connections in detector or device are connected into the correct terminals
- Use HP2000 programmer or laptop dependant on the system type to down load information from the device, this will show if programmed parameters are correct
- Technical data sheets for each Ex-Or product can be down loaded from our web site.  
[www.ex-or.com](http://www.ex-or.com)
- Check compatibility of ballast with detector

### **Further Information**

If a fault cannot be found then the next course of action should be to contact:

- Technical Sales Support [technicalsales.ex-or@honeywell.com](mailto:technicalsales.ex-or@honeywell.com)
- Commissioning Department 01942 719229

The above departments can both offer technical assistance

**TERMS & CONDITIONS OF COMMISSIONING**

Contractors Company Name .....

Contractors Address .....

.....

Tel No ..... Fax No .....

Contact Name .....

Contact Email .....

Mobile No .....

Site Address .....

.....

Site Contact Name ..... Site Tel No .....

**PURCHASE ORDER NUMBER ISSUED TO EX-OR**.....

|  | <b>YES</b> | <b>NO</b> |
|--|------------|-----------|
| 1 Has the Ex-Or system been connected to the mains supply  |            |           |
| 2 If "Yes" is the activity light on the RB2000 flashing red  |            |           |
| 3 Will our Engineer have free & Unlimited access to all areas where the Ex-Or system is installed  |            |           |
| 4 Are all the Ex-Or communications cables installed and connected  |            |           |
| 5 Are All Mains and Dimming cables terminated into the luminaires  |            |           |
| 6 Has the compatibility of fluorescent loads been checked i.e. If digital dimming are they digital ballasts  |            |           |
| 7 Have all cables been tested to IEE regulations   |            |           |
| 8 Have "as installed" site specific drawings been supplied to Ex-Or  |            |           |
| 9 Are all zones, required light levels, time delays and other parameters shown on drawings or included in the paperwork If CD Boxes are used are all luminaires plugged into the right port to give the functionality required |            |           |
| 10 Are wiring routes shown on drawings (Bus cabling)   |            |           |
| 11 Have all fittings been checked for mains and emergency operation  |            |           |
| 12 All relevant drawings and paperwork must be with the EX-Or commissioning department at least a week before site attendance is required  |            |           |
| 13 Is access available to all areas  |            |           |
| 14 Is access available to any High areas   |            |           |
| <b>NOTE:</b> Access equipment must be supplied free issue to our Engineer for heights above 2m and any scaffolding must be erected by the contractor   |            |           |

- 15 Is a site induction required
- 16 If the answer is yes what time is it carried out
- 17 Electrician to be on site and in attendance at ALL times

| YES           | NO |
|---------------|----|
|               |    |
| ____:____ hrs |    |
|               |    |

- 18 A minimum of 2 working days **written or faxed** notice is required from the customer to cancel appointments. If no notice is received and the engineer arrives on site the customer will be charged at a minimum of 1day (*rate applicable at the time*).
- 19 If the system offered for commission is not ready or available at the time our engineer arrives on site a waiting time of 1hr from arrival will be allowed before the Engineer leaves site and condition 18 will apply.
- 20 All criteria of the above conditions should be strictly adhered to when booking a commission; otherwise an aborted visit will result in condition 18 being applied.
- 21 If the equipment is not installed or ready for commissioning and a return visit is required, this could take up to 2 weeks to re-schedule subject to program of works.
- 22 This document: **MUST BE SIGNED & RETURNED OR FAXED AS ACCEPTANCE OF OUR TERMS & CONDITIONS, THE COMMISSIONING VISIT WILL NOT BE BOOKED AND PROGRAMMED UNTIL THIS FORM IS SIGNED AND RETURNED**

Company Name .....

Customer Signature .....

Date .....

**Please return this form to: Ex-Or Contracts Department**

**Fax Number 01942 272 767**

**Email [contracts.ex-or@honeywell.com](mailto:contracts.ex-or@honeywell.com)**

**PREFERRED DATE(S) FOR COMMISSIONING.....**